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Alternatives for Reducing Insecticides on Cotton and Corn: Economic and Environmental Impact - Supplement 1 Detailed Data for Static and Linear Analysis of Alternatives for Reducing Insecticides on Cotton and Corn

Cornell Univ., Ithaca, NY

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ALTERNATIVES FOR REDUCING INSECTICIDES ON COTTON AND CORN:

ECONOMIC AND ENVIRONMENTAL IMPACT

Supplement 1

DETAILED DATA FOR STATIC AND LINEAR ANALYSIS OF

ALTERNATIVES FOR REDUCING INSECTICIDES ON COTTON AND CORN

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ALTERNATIVES FOR REDUCING INSECTICIDES ON COTTON AND CORN: Economic and Environmental Impact - Supplement 2: Procedures Used in Setting Up the Agricultural Production Model - EPA-600/5-79-007c

Listed are the expected insect control costs and insecticide use per acre for each insect control method on corn and cotton in each region discussed in Alternatives for Reducing Insecticides on Cotton and Corn: Economic and Environmental Impact. All the runs used in the linear programming model analysis are listed. The model was used to evaluate the effect of the insect control strategies as defined under various assumptions regarding inter-regional shifts in cotton acreage and level of grain exports.

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Part 1. THE EXPECTED INSECT CONTROL COSTS AND INSECTICIDE USE FOR THE ALTERNATIVE CONTROL METHODS ON COTTON AND CORN.

The expected insect control costs and insecticide use per acre for each insect control method on corn and cotton in each region are given in the following list. The figures given in this list are the basis of the static and dynamic analyses discussed in the main text.

The values in the list are calculated from the data given in Appendix A and this is described below. The values listed under the heading Total Cost are the insect control costs on treated acres multiplied by the fraction of acres which are treated plus additional costs for scouting, diapause or trap crops. The amount of Insecticide is calculated similarly. Chlorinated hydrocarbons, organophosphates, and carbamates are referred to as Ch, OP, and C, respectively. Comment Codes (Com. Code) corresponds to those used in Appendix A (comment code 1 refers to methods currently used, comment code 2 refers to methods which could be implemented currently, and comment 3 to methods which can be implemented in 5 to 10 years). The Table, Line, and Insect Control Method correspond to the descriptions in Appendix A.

The entry labeled current average gives estimates of current insecticide use and insect control costs. The current Total Cost is the average of the total cost weighted by the percentage of acres in each practice with comment code 1. The Cost Differential of each method is the total cost of the method minus the "current average" total cost. Thus, a negative sign in the cost differential column indicates that an insect control method is less expensive than the current average cost. The yield differential is the ratio of the yield to the current average yield.

Initially data on the current average use of the insect control methods are computed for each table in Appendix A, and are listed in "line 25" of each table of Appendix B. These are obtained by taking a weighted average of all current cultural practices in each table, i.e. those lines in the table with comment code "1". Total current average cost is computed as follows for table j in Part 1.

$$CAC_j = \sum_i [(PERC_{ij}) \times (CURR_{ij}) \times (TOTC_{ij}) +$$

$$(PERC_{ij}) \times (SCOUT_{ij}) + (PERC_{ij}) \times (CURR_{ij}) \times (TRAP_{ij}) +$$

$$(PERC_{ij}) \times (PERCD_{ij}) \times (DIAP_{ij})]$$

where

CAC_j is the current average cost (listed in line "25" of table j.

i is the index of each cultural (insect control) practice, and corresponds to a line in table j with comment code "1"

CONTENTS

Page

Part 1. The expected insect control costs and insecticide use for the alternative control methods on cotton and corn.....1
Tables. 4
Part 2. Principal results obtained from the linear programming analysis.46
Tables. 49

$PERC_{ij}$ is the percentage of treated acreage using the insect control strategy in line i in table j.

$CURR_{ij}$ is the percentage of acreage currently being treated using insect control strategy i in table j.

$TOTC_{ij}$ is the total cost of treatments using a fixed spray schedule for cultural practice i in table j.

$SCOUT_{ij}$ represents the additional total cost of any scouting performed for cultural practice i in table j.

$TRAP_{ij}$ represents the additional total cost of any trap crops planted and sprayed as part of cultural practice i in table j.

$PERCD_{ij}$ is the percentage of acres in cultural practice i in table j in diapause control.

$DIAP_{ij}$ represents the additional total cost of any diapause performed as part of cultural practice i in table j.

All of these above data are given in the tables in Appendix A.

In a similar fashion the current average amounts of insecticide used are computed. Thus the formula for the current average use of chlorinated hydrocarbons (CH) is

$$CACH_j = \sum_i \Big[(PERC_{ij}) \times (CURR_{ij}) \times (TRNO_{ij}) \times (CH_{ij}) + (PERC_{ij}) \times (CURR_{ij}) \times (TRAPNO_{ij}) \times (TRAPCH_{ij}) + (PERC_{ij}) \times (PERCD_{ij}) \times (DIAPNO_{ij}) \times (DIAPCH_{ij})\Big]$$

where

$CACH_j$ is the current average amount of CH used in table j.

$TRNO_{ij}$ is the number of insecticide treatments used in the fixed spray schedule of the cultural practice i in table j.

CH_{ij} is the amount of CH used in each fixed spray treatment for cultural practice i in table j.

$TRAPNO_{ij}$ is the number of insecticide treatments used for any trap crops planted and sprayed as part of cultural practice i in table j.

$TRAPCH_{ij}$ is the amount of chlorinated hydrocarbons (CH) used in each treatment for those trap crops planted and sprayed as part of cultural practice i in table j.

$DIAPNO_{ij}$ is the number of insecticide treatments used in cultural practice i in table j for diapause control.

$DIAPCH_{ij}$ is the amount of chlorinated hydrocarbons (CH) used in each diapause control treatment in cultural practice i in table j.

All the above data are given in the tables in Appendix A. In a similar fashion the current average use of organophosphates (OP) and Carbamates (C) are computed. Finally, the current average yield differential is set to the base value of 1.0.

The data in the current average rows are used to compute the remaining rows in each table in Part 1. For each cultural practice $TCOST_{ij}$ the total cost of cultural practice i in table j is computed by the following formula:

$$TCOST_{ij} = (CURR_{ij}) \times (TOTC_{ij}) + (PERCD_{ij}) \times (DIAP_{ij}) +$$

$$(CURR_{ij}) \times (TRAP_{ij}) + (SCOUT_{ij})$$

The cost differential in each line i and each table j is then the difference

$$(TCOST_{ij}) - (CAC_{j})$$

Similarly, the yield differential for each cultural practice i in each table j is the ratio between the expected crop yield using the cultural practice and the average yield for the region covered by the table. Both of these figures are given in the tables in Part 1.

Finally, the formula for TCH_{ij}, the total chlorinated hydrocarbons (CH) used in cultural practice i in table j is given by

$$(TCH_{ij}) = (CURR_{ij}) \times (TRNO_{ij}) \times (CH_{ij}) +$$

$$(CURR_{ij}) \times (TRAPNO_{ij}) \times (TRAPCH_{ij}) +$$

$$(PERCD_{ij}) \times (DIAPNO_{ij}) \times (DIAPCH_{ij})$$

In a similar fashion the total Organophosphates (OP) and Carbamates (C) used in each cultural practice in each table are computed.

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Alabama, central region (cont.)									
1	7	Trap Crop Short Season, Regular	-29.50	1.000	9.25	4.63	1.35	21.73	3
1	8	Trap Crop Scouting	-25.43	1.000	11.75	5.88	6.75	25.80	2
1	9	Short Season Scouting	-37.98	1.000	6.00	3.00	0.00	13.25	3
1	10	Resistant Scouting	-25.98	1.000	12.00	6.00	0.00	25.25	3
1	11	Short Season Resistant Scouting	-41.98	1.000	4.00	2.00	0.00	9.25	3
Alabama, northern region									
2	25	Current Average		1.000	12.52	7.85	0.00	26.25	
2	1	Regular Diapause	4.46	1.000	15.36	9.77	0.00	31.62	1
2	2	Scouting Diapause	- 8.00	1.000	14.00	7.50	0.00	34.25	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Alabama, northern region (cont.)									
2	3	Resistant Regular	-10.25	1.000	8.00	4.00	0.00	16.00	3
2	4	Resistant Scouting Diapause	4.00	1.000	8.00	2.50	0.00	22.25	3
2	5	Trap Crop Regular	0.74	1.000	11.5	5.75	9.00	26.99	2
2	6	Short Season Regular	-10.25	1.000	8.00	4.00	0.00	16.00	3
2	7	Trap Crop Short Season Regular	9.26	1.000	6.0	3.0	9.00	16.99	3
2	8	Diapause Scouting	0.00	1.000	10.00	5.50	0.00	26.25	2
2	9	Trap Crop Scouting	-24.99	1.000	10.50	5.25	6.75	26.24	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	OP	C	Total Cost	Com. Code
2	10	Short Season Scouting	-13.00	1.000	6.00	3.00	0.00	13.25	3
2	11	Resisiant Scouting	-5.00	1.000	10.00	5.00	0.00	21.25	3
2	12	Short Season Resistant Scouting	-17.00	1.000	4.00	2.00	0.00	9.25	3
Arizona, eastern region									
3	25	Current Average		1.000	4.22	1.21	0.00	7.47	
3	1	Regular	2.53	1.000	8.00	2.00	0.00	10.00	1
3	2	Scouting	-2.07	1.000	1.13	0.56	0.00	5.40	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Arizona, western and central region									
4	25	Current Average		1.000	17.70	8.85	0.00	44.38	
4	1	Regular	0.62	1.000	18.00	9.00	0.00	45.00	1
4	2	Scouting	-11.88	1.000	12.00	6.00	0.00	32.50	1
4	3	Trap Crop Regular	7.23	1.000	15.00	7.50	0.00	51.21	2
4	4	Trap Crop Scouting	- 7.77	1.000	8.00	4.00	0.00	36.61	2
4	5	Short Season Regular	-14.38	1.000	12.00	6.00	0.00	30.00	2
4	6	Short Season Scouting Trap Crop	-15.27	1.000	5.00	2.50	0.00	29.11	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
4	7	Short Season Scouting	-26.88	1.000	6.00	3.00	0.00	17.50	3
Arkansas, central, east central, southwest region									
5	25	Current Average		1.000	12.39	8.06	4.03	16.20	
5	1	Regular Diapause	-0.45	1.000	12.90	8.00	4.90	15.75	1
5	2	Scouting Diapause	1.05	1.170	11.20	8.20	2.00	17.25	1
5	3	Resistant	-16.20	0.975	0.00	0.00	0.00	0.00	3
5	4	Short Season	-16.20	0.780	0.00	0.00	0.00	0.00	3
5	5	Scouting Diapause	3.30	1.170	9.00	8.00	2.50	19.50	2
5	6	Short Season Scouting	-14.70	1.000	0.00	0.00	0.00	1.50	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Arkansas, central, east central, southwest region									
5	7	Resistant Scouting	-14.70	1.000	0.00	0.00	0.00	1.50	3
5	8	Short Season Resistant Scouting	-14.70	1.000	0.00	0.00	0.00	1.50	3
Arkansas, northeast region									
6	25	Current Average		1.000	0.42	0.21	0.00	3.25	
6	1	Regular	-0.25	1.000	0.50	0.25	0.00	3.00	1
6	2	Scouting	0.25	1.000	0.33	0.17	0.00	3.50	1
Arkansas, northeast region (cont.)									
6	3	Scouting	1.25	1.000	0.50	0.25	0.00	4.50	2
California, San Joaquin Valley region									
7	25	Current Average		1.000	1.64	3.29	1.25	14.13	
7	1	Regular Trap Crop	1.87	0.944	2.00	4.00	1.50	16.00	1
7	2	Scouting	-6.63	1.000	0.38	0.75	0.38	7.50	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
7	3	Trap Crop Regular	-6.41	1.000	2.25	0.00	0.00	20.54	2
7	4	Trap Crop Scouting	11.41	1.000	0.75	0.00	0.00	25.54	2
California, southern region (Imperial, San Bernardino, and Riverside Co.)									
8	25	Current Average		1.000	0.00	8.20	1.40	62.25	
California, southern region (Imperial, San Bernardino, and Riverside Co.)									
8	1	Regular	9.75	1.000	0.00	10.00	2.00	72.00	1
8	2	Scouting	-6.80	1.000	0.00	7.00	1.00	55.75	1
8	3	Scouting	-21.50	1.000	0.00	5.00	1.00	40.75	2
8	4	Crop Mgt. Scouting	-30.50	1.000	0.00	4.00	0.00	31.75	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
8	5	Short Season	-35.25	1.000	0.00	4.50	0.00	27.00	2
8	6	Crop Mgt. Scouting Short Season	-33.50	1.000	0.00	3.50	0.00	28.75	2
8	7	Short Season Scouting	-27.50	1.000	0.00	4.50	0.00	34.75	3
8	8	Short Season Resistant Scouting	-27.50	1.000	0.000	4.50	0.00	34.75	3
Georgia, Above the Fall Line region									
9	25	Current Average		1.000	21.85	10.98	0.00	55.57	
Georgia, Above the Fall Line region (cont.)									
9	1	Regular Diapause	2.23	1.000	22.80	11.45	0.00	57.80	1
9	2	Scouting Diapause	-6.68	1.000	19.00	9.55	0.00	48.89	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
9	3	Short Season Regular	-15.57	1.000	16.00	8.00	0.00	40.00	3
9	4	Scouting Diapause	-4.97	1.000	18.00	9.25	0.00	50.60	2
9	5	Resistant Regular	-20.57	1.000	14.00	7.00	0.00	35.00	3
9	6	Scouting Resistant Diapause	-17.98	1.000	12.00	6.25	0.00	35.59	3
9	7	Short Season Scouting	-18.98	1.000	14,00	7.00	0.00	36.59	3
9	8	Resistant Scouting	-23.98	1.000	12.00	6.00	0.00	31.59	3
9	9	Short Season Resistant Scouting	-23.98	1.000	12.00	6.00	0.00	31.59	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Georgia, Below the Fall Line region									
10	25	Current Average		1.000	29.45	14.78	0.00	74.42	
Georgia, Below the Fall Line region (cont.)									
10	1	Regular Diapause	1.98	1.000	30.40	15.25	0.00	76.40	1
10	2	Scouting Diapause	-5.93	1.000	26.60	13.35	0.00	68.49	1
10	3	Regular Diapause	4.38	1.000	30.00	15.25	0.00	79.00	2
10	4	Short Season Regular	-14.42	1.000	24.00	12.00	0.00	60.00	3
10	5	Scouting Diapause	-3.82	1.000	26.00	13.25	0.00	70.60	2
10	6	Resistant Regular	-24.42	1.000	20.00	10.00	0.00	50.00	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
10	7	Scouting Resistant Diapause	-38.82	1.000	12.00	6.25	0.00	35.60	3
10	8	Short Season Scouting	-17.83	1.000	22.00	11.00	0.00	56.59	3
10	9	Resistant Scouting	-27.83	1.000	18.00	9.00	0.00	46.59	3
10	10	Short Season Resistant Scouting	-42.83	1.000	18.00	9.00	0.00	31.59	3
Louisiana									
11	25	Current Average		1.000	17.25	9.13	0.00	44.04	
11	1	Regular Diapause	13.50	1.000	21.00	11.00	0.00	57.54	1
11	2	Scouting Diapause	-4.50	1.000	16.00	8.50	0.00	39.54	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Louisiana (cont.)									
11	3	Resistant Diapause Regular	-35.64	1.000	0.00	0.75	0.00	8.40	3
11	4	Resistant Scouting Diapause	-33.64	1.000	0.00	0.75	0.00	10.40	3
11	5	Trap Crop Scouting Diapause	-30.71	1.000	4.05	2.02	0.00	13.33	3
11	6	Trap Crop Scouting Resistant Diapause	-30.71	1.000	3.05	1.52	0.00	13.33	3
11	7	Short Season Resistant Scouting	-34.04	1.000	4.00	2.00	0.00	10.00	3
11	8	Diapause Scouting	-21.64	1.000	6.00	3.00	0.00	22.40	2
11	9	Trap Crop Scouting	-16.71	1.000	11.75	5.88	0.00	27.33	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
11	10	Short Season Scouting	-34.04	1.000	4.00	2.00	0.00	10.00	3
11	11	Resistant Scouting	-34.04	1.000	4.00	2.00	0.00	10.00	3
Mississippi, Delta region									
12	25	Current Average		1.000	14.64	7.32	0.00	34.11	
12	1	Regular	10.89	1.000	20.00	10.00	0.00	45.00	1
12	2	Scouting	-5.36	1.000	12.00	6.00	0.00	28.75	1
12	4	Resistant (Nectarless)	-34.11	0.846	0.00	0.00	0.00	0.00	2
12	5	Scouting Short Season	-14.36	0.885	8.00	4.00	0.00	19.75	2
12	6	Scouting Diapause	-7.26	1.000	8.00	6.00	0.00	26.85	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Mississippi, Delta region (cont.)									
12	7	Scouting Resistant	-18.86	1.000	6.00	3.00	0.00	15.25	2
12	8	Scouting Resistant (Nectarless)	-14.36	1.000	8.00	4.00	0.00	19.75	2
12	9	Scouting Pheromone Traps	-14.36	1.000	8.00	4.00	0.00	19.75	2
12	11	Short Season Resistant (Nectarless)	-34.11	0.846	0.00	0.00	0.00	0.00	3
12	15	Scouting Short Season Resistant (Nectarless)	-21.71	0.885	4.00	2.50	0.00	12.40	3
Mississippi, Hill region									
13	25	Current Average		1.000	18.80	9.40	0.00	32.60	
13	1	Regular	1.15	1.000	20.00	10.00	0.00	33.75	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Mississippi, Hill region (cont.)									
13	2	Scouting	-5.40	1.000	14.00	7.00	0.00	28.00	1
13	4	Resistant	-32.60	0.764	0.00	0.00	0.00	0.00	3
13	5	Scouting Short Season	-17.35	0.947	7.00	3.50	0.00	15.25	3
13	6	Scouting Resistant	-17.35	0.947	7.00	3.50	0.00	15.25	3
13	7	Scouting Diapause	11.90	1.000	14.00	9.85	0.00	44.50	2
13	8	Scouting Trap Corp	3.82	1.000	14.00	7.10	0.00	36.42	2
13	9	Short Season Resistant	-32.60	0.811	0.00	0.00	0.00	0.00	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Mississippi, Hill region (cont.)									
13	11	Scouting Short Season Resistant	-23.35	0.895	4.00	2.60	0.00	9.25	3
13	15	Scouting Resistant Diapause Trap Crop	-2.21	1.000	7.00	6.00	0.00	30.39	3
Missouri									
14	25	Current Average		1.000	0.00	0.18	0.00	1.29	
14	1	Regular	-.09	1.000	0.00	0.18	0.00	1.20	1
14	2	Scouting	1.66	1.000	0.00	0.18	0.00	2.95	1
14	3	Short Season	-.09	1.000	0.00	0.18	0.00	1.20	3
14	4	Diapause Scouting	1.66	1.000	0.00	0.18	0.00	2.95	2
14	5	Trap Crop Scouting	1.66	1.000	0.00	0.18	0.00	2.95	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
14	6	Short Season Scouting	1.66	1.000	0.00	0.18	0.00	2.95	3
14	7	Resistant Scouting	1.66	1.000	0.00	0.18	0.00	2.95	3
14	8	Short Season Resistant Scouting	1.66	1.000	0.00	0.18	0.00	2.95	3
New Mexico									
15	25	Current Average		1.000	0.00	0.03	0.00	0.48	
15	1	Regular	-.32	1.000	0.00	0.04	0.00	0.16	1
15	2	Scouting	1.27	1.000	0.00	0.00	0.00	1.75	1
15	3	Short Season Scouting	1.27	1.000	0.00	0.00	0.00	1.75	3
North Carolina, eastern region									
16	25	Current Average		1.000	22.56	11.29	0.00	51.53	

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
16	1	Regular Diapause	6.26	1.000	25.92	12.97	0.00	57.79	1
16	2	Scouting Diapause	-6.26	1.000	19.20	9.61	0.00	45.27	1
16	3	Scouting Diapause	-27.87	1.000	9.00	4.75	0.00	23.66	2
16	4	Resistant Scouting	-28.67	1.000	9.00	4.50	0.00	22.26	3
16	5	Short Season Scouting Diapause	-30.13	1.000	8.00	4.25	0.00	21.40	3
16	6	Short Season Resistant Scouting Diapause	-39.13	1.000	4.00	2.25	0.00	12.40	3
16	7	Short Season Scouting	-27.03	1.000	10.00	5.00	0.00	24.50	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
16	8	Short Season Resistant Scouting	-36.03	1.000	6.00	3.00	0.00	15.50	3
North Carolina, western region									
17	25	Current Average		1.000	15.36	7.68	0.00	35.08	
17	1	Regular	2.84	1.000	17.28	8.64	0.00	37.92	1
17	2	Scouting	-2.84	1.000	13.44	6.72	0.00	32.24	1
17	3	Resistant Regular	-14.82	1.000	9.00	4.50	0.00	20.26	3
17	4	Short Season Scouting	-15.08	1.000	8.00	4.00	0.00	20.00	3
17	5	Short Season Resistant Scouting	-24.08	1.000	4.00	2.00	0.00	11.00	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
North Carolina, western region (cont.)									
17	6	Resistant Scouting	-12.82	1.000	9.00	4.50	0.00	22.76	3
Oklahoma, dryland-southwest region									
18	25	Current Average		1.000	0.73	0.73	0.00	1.59	
18	1	Regular	-0.01	1.000	0.75	0.75	0.00	1.58	1
18	2	Scouting	0.21	1.000	0.38	0.38	0.00	1.80	1
Oklahoma, irrigated southwest region									
19	25	Current Average		1.000	10.41	10.41	0.00	22.02	
19	1	Regular	0.07	1.000	10.50	10.50	0.00	22.09	1
19	2	Scouting	-1.12	1.000	9.00	9.00	0.00	20.90	1
19	3	Trap Crop Scouting	-16.09	1.000	0.00	0.00	0.00	5.93	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Oklahoma, southeast region									
20	25	Current Average		1.000	7.13	7.13	0.00	15.14	
20	1	Regular	-.02	1.000	7.20	7.20	0.00	15.12	1
20	2	Scouting	.26	1.000	6.00	6.00	0.00	15.40	1
South Carolina, coastal plains region									
21	25	Current Average		1.000	30.04	15.02	0.00	57.32	
21	1	Regular	6.44	1.000	34.00	17.00	0.00	63.75	1
21	2	Scouting	-3.32	1.000	28.00	14.00	0.00	54.00	1
21	3	Scouting Diapause	-1.32	1.000	24.00	13.00	0.00	56.00	2
21	4	Scouting	-20.82	1.000	18.00	9.00	0.00	36.50	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
South Carolina, coastal plains region (cont)									
21	5	Trap Crop Scouting	-2.34	1.000	23.00	12.70	0.00	54.98	2
21	6	Trap Crop Scouting Short Season Diapause	-1.22	1.000	19.5	10.95	0.00	56.10	3
21	7	Resistant Scouting	-6.82	1.000	24.00	12.00	0.00	50.50	3
21	8	Short Season Resistant Scouting	-20.82	1.000	18.00	9.00	0.00	36.50	3
South Carolina, Piedmont region									
22	25	Current Average		1.000	29.00	14.50	0.00	54.75	
22	1	Regular	1.50	1.000	30.00	15.00	0.00	56.25	1
22	2	Scouting	-4.50	1.000	26.00	13.00	0.00	50.25	1
22	3	Scouting Diapause	-6.75	1.000	22.00	12.00	0.00	48.00	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
South Carolina, Piedmont region (cont.)									
22	4	Short Season Scouting	-21.25	1.000	16.00	8.00	0.00	33.50	3
22	5	Trap Crop Scouting	-1.21	1.000	23.00	12.50	0.00	53.54	2
22	6	Trap Crop Scouting Short Season Diapause	-12.15	1.000	16.00	9.20	0.00	37.10	3
22	7	Resistant Scouting	-12.25	1.000	22.00	11.00	0.00	42.50	3
22	8	Short Season Resistant Scouting	-21.25	1.000	16.00	8.00	0.00	33.50	3
23	25	Current Average		1.000	13.70	20.38	0.00	29.87	
23	1	Regular	0.37	1.000	13.81	20.71	0.00	30.24	1
23	2	Scouting	-11.61	1.000	8.38	4.19	0.00	18.26	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Tennessee, northern region									
23	3	Resistant Regular	-21.47	1.000	4.19	2.10	0.00	8.40	3
23	4	Resistant Scouting	-26.27	1.000	1.05	0.52	0.00	3.60	3
23	5	Short Season Regular	-23.85	1.000	0.26	0.13	0.00	6.02	3
23	6	Pheromone Traps Scouting	-18.94	1.000	4.71	2.36	0.00	10.93	3
23	7	Short Season Scouting	-11.57	1.000	8.4	4.70	0.00	18.30	3
23	8	Short Season Resistant Scouting	-26.27	1.000	1.00	0.50	0.00	3.60	3
Texas, Black Lands region									
25	25	Current Average		1.000	1.31	0.39	0.00	7.96	

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
25	1	Regular	.04	1.000	1.33	0.40	0.00	8.00	1
25	2	Scouting	-.96	1.000	0.83	0.25	0.00	7.00	1
25	3	Resistant (Boll Weevil) Fleahoppers Short Season Scouting	-4.46	1.000	0.33	0.10	0.00	3.50	3
25	4	Sanitation Scouting	-2.06	1.000	0.58	0.18	0.00	5.90	2
25	5	Short Season Scouting	-2.46	1.000	0.00	0.66	0.20	5.50	3
25	6	Resistant Scouting	-4.46	1.00	0.00	0.33	0.10	3.50	3
Texas, central Texas River Bottoms region									
26	25	Current Average		1.000	1.32	2.05	0.22	10.10	
26	1	Regular	1.77	1.000	1.80	2.65	0.26	11.87	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Texas, central Texas River Bottoms region									
26	2	Scouting	-5.50	1.000	0.14	0.57	0.13	4.60	1
26	3	Resistant (Boll weevil) Scouting	-5.97	1.000	0.36	0.57	0.0	4.13	3
26	4	Short Season Regular	-3.06	1.000	1.90	1.90	0.00	7.04	3
26	5	Short Season Scouting & Resistant Variety	-5.29	1.000	0.54	0.75	0.06	4.81	3
26	6	Crop Culture Scouting	-6.34	1.000	0.11	.37	.01	3.76	2
26	7	Short Season Resistant Scouting	-5.50	1.000	0.54	0.61	0.02	4.60	3
Texas, High Plains region									
27	25	Current Average		1.000	0.00	0.02	0.00	0.11	
27	1	Regular	0.00	1.000	0.00	0.02	0.00	0.11	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Texas, Lower Rio Grande Valley region									
29	25	Current Average		1.000	11.25	11.25	0.00	42.81	
29	1	Regular	2.19	1.000	12.00	12.00	0.00	45.00	1
29	2	Scouting	-6.56	1.000	9.00	9.00	0.00	36.25	1
29	3	Scouting Sanitation	-16.91	1.000	6.00	6.00	0.00	25.90	2
29	4	Resistant (Boll weevil & Cotton flea hopper)	-24.06	1.000	5.00	5.00	0.00	18.75	3
29	5	Short Season Scouting	-23.44	1.000	4.50	4.50	0.00	19.37	3
29	6	Short Season Scouting Sanitation Diapause	-24.41	1.000	4.00	4.00	0.00	18.40	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
29	7	Resistant Scouting	-23.44	1.000	4.50	4.50	0.00	19.37	3
29	8	Short Season Resistant Scouting	-25.31	1.000	4.00	4.00	0.00	17.50	3
Texas, Rolling Plains region									
30	25	Current Average		1.000	0.00	0.24	0.00	1.44	
30	1	Regular Diapause	-2.38	1.108	0.00	0.84	0.00	3.82	1
30	2	Scouting Diapause	6.88	1.200	0.00	1.59	0.00	8.32	1
30	3	No treatment Diapause	-1.00	0.923	0.00	0.28	0.00	0.44	1
30	4	Resistant Short Season	-0.31	1.000	0.00	1.13	0.00	1.75	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
30	5	Diapause Scouting	6.10	1.020	0.00	0.75	0.00	7.54	2
30	6	Short Season Scouting	6.10	1.020	0.00	0.75	0.00	7.54	3
30	7	Resistant Scouting	6.10	1.020	0.00	0.38	0.00	7.54	3
30	8	Short Season Resistant Scouting	6.10	1.020	0.00	0.38	0.00	5.04	3
Texas, Trans-Pecos region									
31	25	Current Average		1.000	10.55	10.55	0.00	39.68	
31	1	Regular	1.57	1.000	11.00	11.00	0.00	41.25	1
31	2	Scouting	-19.43	1.000	5.00	5.00	0.00	20.25	1
31	3	Regular Short Season	-13.43	1.000	7.00	7.00	0.00	26.25	3
31	4	Regular Crop Culture	-13.43	1.000	7.00	7.00	0.00	26.25	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Texas, Trans-Peco region									
31	5	Scouting Short Season	-26.93	1.000	3.00	3.00	0.00	12.75	3
31	6	Scouting Crop Culture	-26.93	1.000	3.00	3.00	0.00	12.75	2
31	7	Scouting Short Season Crop Culture	-30.68	1.000	2.00	2.00	0.00	9.00	3
Texas, Upper Gulf Coast region									
32	25	Current Average		1.000	0.00	0.73	0.22	5.70	
32	1	Regular	2.30	1.000	0.00	1.33	0.40	8.00	1
32	2	Scouting	-.20	1.000	0.00	0.66	0.20	5.50	1
32	3	Resistant (Boll weevil & flea hopper) Short Season Scouting	-4.00	1.000	0.00	0.03	0.01	1.70	3
32	4	Sanitation Scouting	.20	1.000	0.00	0.58	0.18	5.90	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
32	5	Short Season Scouting	-2.20	1.000	0.00	0.33	0.10	3.50	3
32	6	Resistant Scouting	-2.20	1.000	0.00	0.33	0.10	3.50	3
Florida									
33	1	Regular (soil insects)	0.00	1.000	0.00	0.50	0.44	3.98	1
33	2	Regular (needs treatment)	3.67	1.000	0.00	1.00	0.88	7.65	2
Illinois, east central, southwest, southeast region									
34	1	Continuous	1.14	1.000	0.50	0.32	1.96	5.16	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Illinois, east central, southwest, southeast region									
34	2	Rotation	-.69	1.000	0.44	0.10	0.09	3.33	1
34	3	Rotation (needs treatment)	-3.60	1.000	0.03	0.03	0.01	0.42	2
34	4	Continuous	-2.32	1.000	0.05	0.05	0.15	1.70	3
Illinois, northwest, northeast, central region									
35	1	Continuous	0.92	1.000	0.20	0.47	0.46	5.74	1
35	2	Rotation	-1.21	1.000	0.26	0.24	0.19	3.61	1
35	3	Rotation needed	-3.99	1.000	0.04	0.06	0.03	0.83	2
35	4	Scouting	-2.32	1.000	0.08	0.08	0.08	2.50	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Indiana									
36	1	Continuous	1.78	1.000	0.75	0.25	0.00	3.29	1
36	2	Rotation	-1.18	1.000	0.00	0.05	0.05	0.33	1
36	3	Scouting	3.78	1.000	0.25	0.50	0.25	5.29	3
Iowa, Bottom Land region									
37	01	Continuous	-0.08	1.	.20	.30	.18	2.24	1
37	2	Rotation	.03	1.000	0.18	0.30	0.16	2.35	1
37	3	Rotation Needs treatment	-2.62	1.000	0.04	0.02	0.02	0.26	2
Kansas, Dry Land region									
39	1	Continuous	1.24	1.000	0.00	0.50	0.50	5.00	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Kansas, Dry Land region (cont.)									
39	2	Rotation	-2.31	1.000	0.00	0.15	0.15	1.45	1
39	3	Rotation Needs treatment	-3.76	1.000	0.00	0.00	0.00	0.00	2
Kansas, irrigated region									
40	1	Continuous	0.92	1.000	0.00	0.86	0.86	7.96	1
40	2	Rotation	-1.77	1.000	0.00	0.40	0.40	5.27	1
40	3	Rotation needed	-2.71	1.000	0.00	0.53	0.53	4.33	2
Kentucky, eastern region									
41	1	Continuous (conventional)	.08	1.000	.21	0.07	0.25	1.82	1
41	2	Rotation (conventional)	-.03	1.000	.2	.06	.24	1.71	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Kentucky, eastern region (cont.)									
41	3	Continuous (No-Till)	0.59	1.000	0.90	0.10	0.28	2.16	1
41	4	Rotation (No-Till)	0.59	1.000	0.90	0.10	0.28	2.16	1
41	5	Rotation Conventional needed	-0.02	1.000	0.73	0.02	0.20	1.16	2
Michigan									
43	1	Continuous	1.00	1.000	0.00	0.00	0.46	2.78	1
43	2	Rotation	-1.38	1.000	0.00	0.00	0.24	0.40	1
43	3	Scouting	4.10	1.000	0.00	0.00	0.46	5.88	3
Minnesota									
44	1	Continuous	1.34	1.000	0.00	0.30	0.30	2.42	1

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Minnesota (cont.)									
44	2	Rotation	-1.06	1.000	0.00	0.00	0.00	0.02	1
Missouri, Bottomland region									
45	1	Continuous	-0.02	1.000	0.06	0.05	0.05	0.46	1
45	2	Rotation	0.13	1.000	0.17	0.09	0.05	0.61	1
Nebraska, Dryland region									
47	01	Continuous	2.30	1.		.6	.4	5.80	
47	02	Rotation	-2.30	1.		.2	.00	1.20	
47	03	Scouting Continuous	1.71	1.	000	.38	.18	5.21	
47	04	All corn Scouting	1.70	1.	.00	.50	.40	5.20	

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Nebraska, Dryland region (cont.)									
47	05	All corn Corn borer resistance	-2.90	1.	.00	.10	.00	0.60	
47	06	Rotation needed	1.11	1.	.00	.28	.18	4.61	
Nebraska, irrigated region									
48	01	Continuous	00.47	1.	.00	.53	.43	5.49	
48	02	Rotation	-4.42	1.	.00	.10	.00	0.60	
48	03	Scouting Continuous	-0.41	1.	.00	.28	.18	4.61	
48	04	All corn Scouting	00.17	1.	.00	.48	.43	5.19	
48	05	Scouting for root worm & corn borer	-4.72	1.	.00	.05	.00	0.30	

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Nebraska, irrigated region (cont.)									
48	06	Rotation Scouting	-0.71	1.	.00	.23	.18	4.31	
48	7	Continuous Resistant to Rootworm & Corn Borer	-0.04	1.000	0.00	0.57	0.43	6.15	3
48	8	Continuous Corn Borer Resistant	-3.22	1.000	0.00	0.32	0.18	2.97	3
48	9	Rotation Corn Borer Resistant	-5.14	1.000	0.00	0.17	0.03	1.09	3
New York									
49	1	Continuous	2.70	1.000	0.00	0.20	0.20	4.00	1
49	2	Rotation	-1.16	1.000	0.00	0.00	0.01	0.14	1
49	3	Scouting	3.70	1.000	0.00	0.15	0.15	5.00	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
North Carolina									
50	1	Continuous	0.00	1.000	0.08	0.00	0.11	0.93	1
50	2	Rotation	0.00	1.000	0.08	0.00	0.11	0.93	1
50	3	Scouting	2.00	1.000	0.08	0.00	0.11	2.93	3
Ohio, eastern region									
51	1	Continuous	0.21	1.000	0.07	0.11	0.14	1.04	1
51	2	Rotation	-0.09	1.000	0.00	0.09	0.11	0.72	1
51	3	Scouting Continuous	4.21	1.000	0.07	0.11	0.13	5.04	3
51	4	Scouting Rotation	3.80	1.000	0.07	0.11	0.13	4.63	3

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Ohio, western region									
52	1	Continuous	0.32	1.000	0.14	0.18	0.21	3.20	1
52	2	Rotation	-0.48	1.000	0.80	0.04	0.06	2.40	1
52	3	Rotation Needs treatment	-1.66	1.000	0.40	0.02	0.03	1.20	2
52	4	Scouting Continuous	0.92	1.000	0.14	0.18	0.21	3.80	3
South Dakota									
53	1	Continuous Current	1.94	1.000	0.17	0.52	0.53	5.80	1
53	2	Rotation Current	-1.70	1.000	0.17	0.19	0.20	2.46	1
53	3	Rotation Needs treatment	-1.92	1.000	0.01	0.21	0.23	1.94	2

Table	Line	Insect Control Method	Cost Diff.	Yield Diff.	Insecticide CH	Insecticide OP	Insecticide C	Total Cost	Com. Code
Wisconsin									
54	1	Continuous	2.22	1.098	0.00	1.01	1.02	6.05	1
54	2	Rotation	-3.78	1.098	0.00	0.01	0.02	0.05	1
54	3	Continuous Needs 5 treatments	0.67	1.098	0.00	0.77	0.79	4.50	2
54	4	Rotation Needs treatment	-3.73	1.098	0.00	0.02	0.04	0.10	2
54	5	Scouting Continuous	0.80	1.098	0.08	0.56	0.16	4.63	3
Wyoming									
55	1	Continuous	0.31	1.000	0.02	0.04	0.02	0.35	1
55	2	Rotation	-0.04	1.000	0.00	0.00	0.00	0.00	1

Part 2. PRINCIPAL RESULTS OBTAINED FROM THE LINEAR PROGRAMMING ANALYSIS

Data from successive runs of the Linear Programming model were used to evaluate the effect of the insect control strategies as defined previously under various assumptions regarding inter-regional shifts in cotton acreage and level of grain exports. The following is a list of all the runs used in the analysis. Except where specified, average 1973 levels of insecticide use are assumed for corn.

Run #1 Average 1973 levels of insecticide use (current situation), lower bounds on cotton acreage, medium export levels.

#2 Most Economical Strategy selected from currently available technologies, lower bounds on cotton acreage, medium export levels.

#3 Most Economical Strategy selected from all current and future technologies, lower bounds on cotton acreage, medium export levels.

#4 Regular (fixed schedule) insecticide use, lower bounds on cotton acreage, medium export levels.

#5 Scouting, lower bounds on cotton acreage, medium export levels.

#6 Diapause/Scouting, lower bounds on cotton acreage, medium export levels.

#7 Trap Crop/Scouting, lower bounds on cotton acreage, medium export levels.

#8 Short Season/Scouting, lower bounds on cotton acreage, medium export levels.

#9 Resistant/Scouting, lower bounds on cotton acreage, medium export levels.

#10 Short Season/Resistant/Scouting, lower bounds on cotton acreage, medium export levels.

#11 Average 1973 levels of insecticide use, no lower bounds on cotton acreage, medium export levels.

#12 Most Economical Strategy selected from currently available technologies, no lower bounds on cotton acreage, medium export levels.

#13 Most Economical Strategy selected from all current and future technologies, no lower bounds on cotton acreage, medium export levels.

#14 Regular (fixed schedule) insecticide use, no lower bounds on cotton acreage, medium export levels.

#15 Scouting, no lower bounds on cotton acreage, medium export levels.

#16 Diapause/Scouting, no lower bounds on cotton acreage, medium export levels.

#17 Trap Crop/Scouting, no lower bounds on cotton acreage, medium export levels.

#18 Short Season/Scouting, no lower bounds on cotton acreage, medium export levels.

#19 Resistant/Scouting, no lower bounds on cotton acreage, medium export levels.

#20 Short Season/Resistant/Scouting, no lower bounds on cotton acreage, medium export levels.

#21 No Insecticides, lower bound on cotton acreage, medium export levels.

#22 No Insecticides, no lower bound on cotton acreage, medium export levels.

#23 Most Economical Strategy selected from currently available technologies, lower bounds on cotton acreage, low export levels.

#24 Most Economical Strategy selected from all current and future technology, lower bounds on cotton acreage, low export levels.

#25 Scouting, lower bound on cotton acreage, low export levels.

#26 Resistant/Scouting, lower bound on cotton acreage, low export levels.

#27 Short Season/Resistant/Scouting, lower bound on cotton acreage, low export levels.

#28 Most Economical Strategy selected from currently available technologies, lower bounds on cotton acreage, high export levels.

#29 Most Economical Strategy selected from all current and future technologies, lower bounds on cotton acreage, high export levels.

#30 Scouting, lower bounds on cotton acreage, high export levels.

#31 Resistant/Scouting, lower bounds on cotton acreage, high export levels.

#32 Short Season/Resistant/Scouting, lower bounds on cotton acreage, high export levels.

#33 Scouting on cotton, lower bounds on cotton acreage, medium export levels, forced rotation on corn.

#34 Scouting/Short Season/Resistant on cotton, lower bound on cotton acreage, medium export levels, rotations or scouting on corn.

The main results from each of these runs are presented in a table consisting of three parts. For each run;

Part (a) shows

(i) Acreage (000's) by consuming region for each crop
(ii) Total Acreage (000's) for each crop
(iii) Total Production (000 lbs) for each crop
(iv) Total Production Cost ($000) for each crop
(v) Total Transport Cost ($000) for each crop except cotton*

Part (b) shows Insect Control Costs ($000) by consuming region and Insecticide Use (000 lbs active ingredient) by type of active ingredient, by consuming region, for Cotton.

Part (c) shows Insect Control Costs ($000) by State and Insecticide Use (000 lbs active ingredient) by type of active ingredient, by state for Corn.

The following comments apply to all tables.

1. Acreage figures include exogenous acres. Because there is some exogenous acreage in consuming regions 7 and 19 the total acreage figure will usually exceed the sum of the figures in each column.

2. The total production cost, insect control costs and insecticide use data do not include estimates for exogenous acres.

3. Insect control cost and insecticide use data for Corn is not presented by consuming region because basic insecticide data were not available for some states in which corn was an endogenous crop.

*Cotton is not transported in the model. A fixed national demand is assumed.

Table 1. Run #1, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,574	105	2,416	307
2	Iowa/Missouri	179	6,849	10,892	2,631	5,632	650
3	Minn./Wisc.	-	4,423	3,123	4,174	-	8,042
4	Michigan	-	492	34	2,656	-	2,124
5	Ohio/Indiana	-	5,697	3,744	3,859	1,536	1,790
7	Mid-Atlantic	-	2,816	11	2,602	-	939
8	Va./W.Va./N.C.	247	2,575	30	1,230	69	119
9	Ky./Tenn.	312	2,323	286	559	50	97
10	Ala./Ga./S.C.	1,205	1,162	39	90	80	163
11	Fla.	15	337	50	-	-	633
12	Ark./La./Miss.	2,244	2,212	2,141	651	143	918
13	Tex./Oklahoma	7,785	1,671	1,322	11,992	4,790	5,555
14	Kan./Neb.	-	8,115	4,116	18,149	5,276	1,058
15	N.D./S.D.	-	4,359	8,574	8,892	1	10,311
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	10	2,177
18	Ariz./N.M.	258	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,345	-	1,995	640	467
	Total	12,662	52,638	42,937	71,879	21,195	38,118
	Total Production	6,928,696	274,919,435	75,647,262	130,144,679	72,689,564	66,721,110
	Total Cost	1,245,833	2,800,598	1,342,878	1,598,972	677,169	622,081
	Transportation Costs	-	285,350	83,564	372,212	50,638	114,032

Table 1(contd). Run #1, Part (b) - Insect control costs and Insecticide Use on cotton

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	231	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	10,193	4,462	2,233	-
9	Ky./Tenn.	7,243	3,322	4,942	-
10	Ala./Ga./S.C.	62,279	28,448	14,835	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	61,487	30,282	14,682	1,322
13	Tex./Oklahoma	29,828	5,442	5,976	135
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	6,305	2,510	1,249	-
20	Wash./Ore.	-		-	-
21	California	6,838	533	1,382	468
	Total	184,405	72,510	45,331	1,924

Table 1 (contd). Run #1, Part (c) - Insect Control Costs and Insecticide use on corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,270	-	159	140
17	Illinois	20,654	1,372	1,473	4,387
18	Indiana	3,509	385	370	273
19	Iowa	13,698	1,223	1,835	1,091
20	Kansas	27,496	-	2,751	2,721
21	Kentucky	3,698	428	142	262
26	Michigan	1,369	-	-	226
27	Minnesota	3,106	-	541	547
29	Missouri	338	44	37	37
31	Nebraska	4,851	-	512	124
36	New York	762	-	38	38
37	North Carolina	2,213	190	-	508
39	Ohio	1,090	143	115	106
46	South Dakota	9,837	287	887	906
55	Wisconsin	16,230	-	2,465	2,493
56	Wyoming	-	-	-	-
	Total	110,132	4,076	11,339	13,869

Table 2. Run #2, Part (a) - Acreage, Production and Cost Data

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,616	8,713	105	2,426	307
2	Iowa/Missouri	179	6,843	10,892	2,658	5,632	632
3	Minn./Wisc.	-	4,423	3,123	3,979	-	8,236
4	Michigan	-	492	34	2,472	-	2,124
5	Ohio/Indiana	-	5,516	3,744	3,859	1,544	1,790
7	Mid-Atlantic	-	2,816	11	2,791	-	756
8	Va./W.Va./N.C.	247	2,331	30	1,230	69	119
9	Ky./Tenn.	310	2,323	286	559	50	97
10	Ala./Ga./S.C.	1,205	1,162	39	90	80	561
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,782	2,212	2,141	651	134	918
13	Tex./Oklahoma	6,181	2,474	1,322	12,314	5,554	5,199
14	Kan./Neb.	-	8,230	4,117	18,042	5,311	974
15	N.D./S.D.	-	4,425	8,442	8,893	202	10,378
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	253	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,345	-	1,994	640	467
	Total	11,596	53,086	42,944	71,998	22,033	37,509
	Total Production	6,928,696	275,189,961	75,745,948	130,144,679	73,372,833	65,691,341
	Total Cost	1,201,853	2,796,049	1,344,431	1,586,887	701,393	609,206
	Transportation Costs	-	286,533	83,289	369,089	50,697	117,036

Table 2 (contd). Run #2, Part (b) - Insect Control Costs and Insecticide use on cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	215	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	5,639	2,215	1,147	-
9	Ky./Tenn.	4,428	2,032	1,016	-
10	Ala./Ga./S.C.	55,137	22,211	11,544	3,170
11	Fla.	-	-	-	-
12	Ark./La./Miss.	42,337	17,147	9,426	656
13	Tex./Oklahoma	19,091	3,221	3,556	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,600	1,685	846	
20	Wash./Ore.	-	-	-	-
21	California	3,428	128	403	128
	Total	134,875	48,638	27,970	4,049

Table 2 (contd). Run #2, Part (c) - Insect Control Costs and Insecticide Use on corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,270	-	159	140
17	Illinois	19,070	1,319	1,347	4,254
18	Indiana	3,145	436	332	187
19	Iowa	13,683	1,222	1,833	1,100
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	5,185	-	555	114
36	New York	762	-	38	38
37	North Carolina	1,987	171	-	235
39	Ohio	1,248	84	132	168
46	South Dakota	9,966	282	901	921
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	108,365	3,984	11,222	13,699

Table 3. Run #3, Part (a) - Acreage, Production and Cost Data

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,564	105	2,426	307
2	Iowa/Missouri	179	6,814	10,853	2,729	5,632	627
3	Minn./Wisc.	-	4,423	3,123	3,979	-	8,237
4	Michigan	-	492	34	2,372	-	2,124
5	Ohio/Indiana	-	5,550	3,744	3,873	1,538	1,777
7	Mid-Atlantic	-	2,816	11	2,602	-	939
8	Va./W.Va./N.C.	247	2,331	30	1,230	69	119
9	Ky./Tenn.	310	2,323	286	545	50	97
10	Ala./Ga./S.C.	1,205	1,162	39	90	80	561
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,943	2,149	2,043	651	134	918
13	Tex./Oklahoma	5,773	2,215	1,322	12,785	5,492	5,458
14	Kan./Neb.	-	8,230	4,117	17,782	5,421	1,276
15	N.D./S.D.	-	4,376	8,763	8,892	91	10,217
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	258	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,345	-	1,995	640	467
	Total	11,348	52,869	42,979	71,992	21,933	38,079
	Total Production	6,928,696	274,976,253	75,662,727	130,144,679	72,828,849	66,508,768
	Total Cost	1,157,031	2,794,404	1,342,413	1,589,123	698,711	619,979
	Transportation Costs	-	287,054	84,109	365,554	50,721	115,280

Table 3 (contd). Run #3, Part (b) - Insect Control Costs and Insecticide use on cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	215	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	2,605	867	473	-
9	Ky./Tenn.	873	255	126	-
10	Ala./Ga./S.C.	34,170	16,139	8,070	2,189
11	Fla.	-	-	-	-
12	Ark./La./Miss.	37,285	14,464	8,439	656
13	Tex./Oklahoma	17,201	2,827	3,402	90
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	2,507	848	427	-
20	Wash./Ore.	-	-	-	-
21	California	3,428	128	403	128
	Total	98,284	35,528	21,372	3,063

Table 3. (contd). Run #3, Part (c) - Insect Control Costs and Insecticide use on corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,270	-	159	140
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,167	441	334	187
19	Iowa	13,619	1,216	1,824	1,094
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	612	612
29	Missouri	338	44	37	37
31	Nebraska	5,185	-	555	114
36	New York	762	-	38	38
37	North Carolina	1,986	171	-	235
39	Ohio	1,276	86	135	172
46	South Dakota	10,298	300	925	943
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	110,269	4,056	11,373	13,852

Table 4. Run #4, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,574	105	2,416	307
2	Iowa/Missouri	179	6,875	10,892	2,538	5,632	718
3	Minn./Wisc.	-	4,423	3,123	4,174	-	8,042
4	Michigan	-	492	34	2,656	-	2,134
5	Ohio/Indiana	-	5,698	3,744	3,947	1,536	1,703
7	Mid-Atlantic	-	2,816	11	2,603	-	839
8	Va./W.Va./N.C.	247	2,589	30	1,230	69	119
9	Ky./Tenn.	310	2,323	286	559	50	97
10	Ala./Ga./S.C.	1,205	1,378	39	90	80	785
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,122	2,212	2,221	651	143	918
13	Tex./Oklahoma	8,218	1,671	1,322	11,456	4,799	5,555
14	Kan./Neb.	-	8,230	4,117	18,577	4,760	1,007
15	N.D./S.D.	-	4,408	8,476	8,893	202	10,360
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	392	-	2,372	142	2,177
18	Ariz./N.M.	258	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,350	-	2,017	640	467
	Total	12,973	53,108	42,919	71,856	20,687	38,096
	Total Production	6,928,696	276,692,252	75,628,686	130,128,722	70,955,999	66,721,111
	Total Cost	1,266,761	2,819,532	1,343,718	1,599,092	661,351	621,400
	Transportation Costs	-	281,911	83,253	376,311	50,638	114,331

Table 4 (contd). Run #4, Part (b) - Insect Control Costs and Insecticide use on cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	215	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	11,347	5,106	2,554	-
9	Ky./Tenn.	7,333	3,349	5,022	-
10	Ala./Ga./S.C.	66,349	30,670	16,106	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	70,906	32,427	16,865	1,607
13	Tex./Oklahoma	18,504	3,075	4,062	148
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	6,389	2,588	1,278	-
20	Wash./Ore.	-	-	-	-
21	California	7,793	674	1,682	572
	Total	188,836	77,890	47,602	2,327

Table 4 (contd). Run #4, Part (c) - Insect Control Costs and Insecticide use on corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,270	-	159	140
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,173	442	334	187
19	Iowa	13,756	1,228	1,842	1,105
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	5,185	-	555	114
36	New York	762	-	38	38
37	North Carolina	2,227	192	-	263
39	Ohio	1,428	96	151	192
46	South Dakota	9,932	282	897	918
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	110,438	4,084	11,381	13,886

Table 5. Run #5, Part (a) - Acreage Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,728	8,601	105	2,426	307
2	Iowa/Missouri	179	6,857	10,892	2,603	5,632	670
3	Minn./Wisc.	-	4,423	3,123	3,979	-	8,237
4	Michigan	-	492	34	2,656	-	2,124
5	Ohio/Indiana	-	5,689	3,744	3,859	1,545	1,790
7	Mid-Atlantic	-	2,816	11	2,791	-	750
8	Va./W.Va./N.C.	247	2,331	30	1,230	69	119
9	Ky./Tenn.	310	2,323	286	559	50	97
10	Ala./Ga./S.C.	1,205	1,162	39	90	80	561
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,626	2,212	2,141	651	135	918
13	Tex./Oklahoma	6,639	2,474	1,322	11,857	5,554	5,199
14	Kan./Neb.	-	7,957	4,117	18,350	5,228	1,050
15	N.D./S.D.	-	4,345	8,601	8,893	202	10,298
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	253	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,345	-	1,995	640	467
	Total	11,897	53,033	42,990	71,991	21,921	37,544
	Total Production	6,928,696	275,188,936	75,750,791	130,144,679	73,374,427	65,691,342
	Total Cost	1,244,895	2,804,138	1,344,440	1,588,219	696,090	609,722
	Transportation Costs	-	282,985	83,632	373,199	50,697	116,897

Table 5 (contd). Run #5, Part (b) - Insect Control Costs and Insecticide use on cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	9,040	3,820	1,912	
9	Ky./Tenn.	4,428	2,032	1,016	-
10	Ala./Ga./S.C.	58,887	25,754	13,132	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	65,329	28,218	15,151	656
13	Tex./Oklahoma	23,222	4,077	4,297	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,738	1,685	843	-
20	Wash./Ore.	-	-	-	-
21	California	4,386	128	486	161
	Total	170,559	65,714	36,868	912

Table 5 (contd). Run #5, Part (c) - Insect Control Costs and Insecticide use on corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,270	-	159	140
17	Illinois	20,270	1,359	1,446	4,354
18	Indiana	3,143	436	332	187
19	Iowa	13,716	1,225	1,837	1,102
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	4,857	-	500	114
36	New York	762	-	38	38
37	North Carolina	1,987	171	-	235
39	Ohio	1,428	96	151	192
46	South Dakota	9,811	282	884	903
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	109,294	4,039	11,273	13,808

Table 6. Run #6, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,564	105	2,426	307
2	Iowa/Missouri	179	6,847	10,892	2,640	5,632	644
3	Minn./Wisc.	-	4,423	3,123	4,147	-	8,068
4	Michigan	-	492	34	2,656	-	2,124
5	Ohio/Indiana	-	5,702	3,744	3,862	1,531	1,788
7	Mid-Atlantic	-	2,816	11	2,603	-	939
8	Va./W.Va./N.C.	247	2,331	30	1,230	69	119
9	Ky./Tenn.	311	2,322	286	559	50	97
10	Ala./Ga./S.C.	1,205	1,162	39	90	80	755
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,354	2,212	2,141	651	134	918
13	Tex./Oklahoma	7,244	1,671	1,416	12,083	4,630	6,002
14	Kan./Neb.	-	8,230	4,117	18,043	5,311	974
15	N.D./S.D.	-	4,417	8,458	8,893	202	10,369
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	258	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,345	-	1,995	640	467
	Total	12,231	52,614	42,905	71,918	21,065	38,526
	Total Production	6,928,696	274,753,199	75,585,632	130,144,679	70,319,907	67,354,637
	Total Cost	1,277,297	2,791,421	1,342,179	1,597,950	676,969	629,428
	Transportation Costs	-	288,557	83,192	370,937	50,697	114,316

Table 6 (contd). Run #6, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	5,639	2,215	1,147	-
9	Ky./Tenn.	4,428	2,032	1,016	-
10	Ala./Ga./S.C.	55,860	21,972	11,653	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	51,782	16,024	11,753	820
13	Tex./Oklahoma	46,789	3,081	5,973	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,738	1,685	843	
20	Wash./Ore.	-	-	-	-
21	California	4,386	128	486	161
	Total	174,151	47,137	32,903	1,076

Table 6 (contd). Run #6, Part (c) - Insect Control Cost and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,270	-	159	140
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,188	446	335	187
19	Iowa	13,693	1,223	1,834	1,100
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	5,185	-	555	114
36	New York	762	-	38	38
37	North Carolina	1,987	171	-	235
39	Ohio	1,428	96	151	192
46	South Dakota	9,950	282	899	920
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	110,166	4,061	11,375	13,855

Table 7. Run #7, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,616	8,713	105	2,426	307
2	Iowa/Missouri	179	6,843	10,892	2,656	5,632	632
3	Minn./Wisc.	-	4,423	3,123	3,979	-	8,237
4	Michigan	-	492	34	2,472	-	2,124
5	Ohio/Indiana	-	5,516	3,744	3,859	1,544	1,790
7	Mid-Atlantic	-	2,816	11	2,791	-	750
8	Va./W.Va./N.C.	247	2,331	30	1,230	69	119
9	Ky./Tenn.	310	2,323	286	5,559	50	97
10	Ala./Ga./S.C.	1,205	1,162	39	90	80	561
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,782	2,212	2,141	12,314	134	918
13	Tex./Oklahoma	6,181	2,474	1,322	18,043	5,554	5,199
14	Kan./Neb.	-	8,230	4,117	8,893	5,311	974
15	N.D./S.D.	-	4,425	8,442	5,336	202	10,378
16	Idaho/Montana	-	39	-	2,372	-	2,268
17	Colorado/Wy.	-	393	-	392	142	2,177
18	Ariz./N.M.	258	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,345	-	1,995	640	467
	Total	11,596	53,086	42,334	71,998	22,003	37,509
	Total Production	6,928,696	275,189,961	75,745,948	130,144,679	73,372,833	65,691,342
	Total Cost	1,225,585	2,796,049	1,344,432	1,586,888	701,393	609,206
	Transportation Costs	-	286,533	83,289	369,089	50,697	117,030

Table 7 (contd). Run #7, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMINC REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	9,040	3,820	1,912	-
9	Ky./Tenn.	2,650	1,142	572	-
10	Ala./Ga./S.C.	55,517	22,557	11,661	3,170
11	Fla.	-	-	-	-
12	Ark./La./Miss.	52,395	22,320	12,029	656
13	Tex./Oklahoma	22,608	3,695	3,915	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	5,311	1,127	563	-
20	Wash./Ore.	-	-	-	-
21	California	10,467	253	233	33
	Total	158,516	54,914	30,918	3,954

Table 7 (contd). Run #7, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,270	-	159	140
17	Illinois	19,070	1,319	1,347	4,254
18	Indiana	3,145	436	332	187
19	Iowa	13,684	1,222	1,833	1,100
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	5,185	-	555	114
36	New York	762	-	38	38
37	North Carolina	1,987	171	-	235
39	Ohio	1,248	84	132	168
46	South Dakota	9,966	282	901	921
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	108,365	3,984	11,222	13,699

Table 8. Run #8, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,564	105	2,426	307
2	Iowa/Missouri	179	6,874	10,892	2,544	5,632	714
3	Minn./Wisc.	-	4,423	3,123	4,174	-	8,042
4	Michigan	-	492	34	2,656	-	2,124
5	Ohio/Indiana	-	5,697	3,744	3,947	1,536	1,703
7	Mid-Atlantic	-	2,816	11	2,603	-	939
8	Va./W.Va./N.C.	247	2,589	30	1,230	69	11[illegible]
9	Ky./Tenn.	310	2,323	286	569	50	97
10	Ala./Ga./S.C.	1,205	1,279	39	90	80	785
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,435	2,149	2,043	651	134	918
13	Tex./Oklahoma	7,785	1,671	1,322	11,922	4,790	5,555
14	Kan./Neb.	-	8,065	4,117	18,142	5,261	1,204
15	N.D./S.D.	-	4,296	8,700	8,893	202	10,248
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	258	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,345	-	2,017	640	467
	Total	12,852	52,663	42,955	71,894	21,181	38,177
	Total Production	6,928,696	274,919,267	75,648,057	130,144,679	72,689,826	66,721,111
	Total Cost	1,207,385	2,803,219	1,342,212	1,600,689	676,269	622,452
	Transportation Costs	-	283,889	84,056	372,142	50,697	114,155

Table 8 (contd). Run #8, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	5,044	2,049	1,024	-
9	Ky./Tenn.	4,438	2,037	1,147	-
10	Ala./Ga./S.C.	38,234	16,347	8,174	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	28,902	11,389	5,697	-
13	Tex./Oklahoma	46,055	2,141	6,003	174
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	2,645	848	424	-
20	Wash./Ore.	-	-	-	-
21	California	3,686	128	403	128
	Total	129,532	34,939	22,896	302

Table 8 (contd). Run #8, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,270	-	159	140
17	Illinois	20,654	1,372	1,477	4,387
18	Indiana	3,171	441	334	187
19	Iowa	13,752	1,228	1,842	1,105
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	4,987	-	522	114
36	New York	762	-	38	38
37	North Carolina	2,227	192	-	263
39	Ohio	1,428	96	151	192
46	South Dakota	9,715	281	874	892
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	110,017	4,082	11,323	13,860

Table 9. Run #9, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,564	105	2,426	307
2	Iowa/Missouri	179	6,819	10,861	2,716	5,332	627
3	Minn./Wisc.	-	4,423	3,123	3,979	-	8,237
4	Michigan	-	492	34	2,455	-	2,124
5	Ohio/Indiana	-	5,702	3,744	3,859	1,531	1,790
7	Mid-Atlantic	-	2,816	11	2,613	-	928
8	Va./W.Va./N.C.	247	2,331	30	1,230	69	119
9	Ky./Tenn.	310	2,323	286	559	50	97
10	Ala./Ga./S.C.	1,205	1,162	39	90	80	561
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,671	2,212	2,095	651	134	918
13	Tex./Oklahoma	6,540	1,671	1,416	12,578	4,839	6,002
14	Kan./Neb.	-	8,230	4,117	17,880	5,421	1,078
15	N.D./S.D.	-	4,480	8,555	8,893	91	10,321
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	409	-	2,372	142	2,177
18	Ariz./N.M.	258	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,345	-	1,995	640	467
	Total	11,844	52,649	42,925	71,964	21,273	38,532
	Total Production	6,928,696	276,759,603	75,586,115	130,144,679	72,283,596	79,425,932
	Total Cost	1,182,475	2,791,281	1,341,894	1,592,340	685,199	626,367
	Transportation Costs	-	289,188	83,437	366,971	50,722	115,494

Table 9 (contd). Run #9, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	4,825	1,951	976	-
9	Ky./Tenn.	873	255	126	-
10	Ala./Ga./S.C.	42,873	19,122	9,561	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	28,726	11,026	5,515	-
13	Tex./Oklahoma	29,983	1,695	3,042	110
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,738	1,685	843	-
20	Wash./Ore.	-	-	-	-
21	California	4,386	128	486	161
	Total	116,933	35,862	20,580	271

Table 9 (contd). Run #9, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,270	-	159	140
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,188	446	335	187
19	Iowa	13,631	1,217	1,826	1,095
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	5,185	-	555	114
36	New York	762	-	38	38
37	North Carolina	1,987	171	-	235
39	Ohio	1,428	96	151	192
46	South Dakota	10,500	301	947	967
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	110,655	4,073	11,414	13,898

Table 10. Run #10, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,564	105	2,426	307
2	Iowa/Missouri	179	6,874	10,892	2,544	5,632	714
3	Minn./Wisc.	-	4,423	3,123	4,174	-	8,042
4	Michigan	-	492	34	2,656	-	2,124
5	Ohio/Indiana	-	5,697	3,744	3,947	1,536	1,703
7	Mid-Atlantic	-	2,816	11	2,603	-	939
8	Va./W.Va./N.C.	247	2,589	30	1,230	69	119
9	Ky./Tenn.	310	2,323	286	559	50	97
10	Ala./Ga./S.C.	1,205	1,175	39	90	80	785
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,438	2,149	2,043	651	135	918
13	Tex./Oklahoma	7,692	1,671	1,416	11,948	4,814	5,555
14	Kan./Neb.	-	8,107	4,117	18,125	5,274	1,130
15	N.D./S.D.	-	4,339	8,613	8,893	202	10,292
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	258	34	-	171	227	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,345	-	2,017	640	467
	Total	12,763	52,644	42,961	71,901	21,178	38,147
	Total Production	6,928,696	274,919,579	75,646,586	130,144,679	72,689,342	66,721,111
	Total Cost	1,168,770	2,800,121	1,342,578	1,600,538	677,711	622,055
	Transportation Costs	-	285,339	83,754	371,930	50,433	114,223

Table 10 (contd). Run #10, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	3,093	1,182	591	-
9	Ky./Tenn.	873	242	121	-
10	Ala./Ga./S.C.	28,660	14,031	7,016	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	23,118	6,837	4,626	-
13	Tex./Oklahoma	31,939	1,757	3,374	26
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	2,645	848	424	-
20	Wash./Ore.	-	-	-	-
21	California	3,686	128	403	128
	Total	94,543	25,026	16,587	154

Table 10 (contd). Run #10, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,270	-	159	140
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,171	442	334	187
19	Iowa	13,752	1,228	1,842	1,105
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	5,027	-	530	114
36	New York	762	-	38	38
37	North Carolina	2,227	192	-	263
39	Ohio	1,428	96	151	192
46	South Dakota	9,799	282	883	902
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	110,152	4,082	11,341	13,870

Table 11. Run #11, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,755	105	2,236	307
2	Iowa/Missouri	-	6,820	10,892	2,624	5,632	866
3	Minn./Wisc.	-	4,423	3,123	3,899	-	8,316
4	Michigan	-	492	34	2,372	-	2,124
5	Ohio/Indiana	-	5,685	3,744	3,980	1,549	1,669
7	Mid-Atlantic	-	2,816	11	2,602	-	939
8	Va./W.Va./N.C.	30	2,420	30	1,288	71	119
9	Ky./Tenn.	68	2,347	286	619	50	97
10	Ala./Ga./S.C.	-	1,622	39	123	80	562
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	2,281	2,449	2,141	735	339	918
13	Tex./Oklahoma	10,127	2,693	1,025	9,486	4,757	4,882
14	Kan./Neb.	-	7,957	4,117	20,648	3,097	856
15	N.D./S.D.	-	4,323	8,715	8,824	202	10,275
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	107	34	-	172	214	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	48	1,345	-	2,140	640	467
	Total	12,660	54,040	42,916	71,806	19,009	37,353
	Total Production	6,928,696	280,519,998	75,806,565	130,148,679	68,152,665	65,674,831
	Total Cost	926,946	2,871,570	1,345,156	1,597,630	639,421	607,535
	Transportation Costs	-	262,408	84,341	389,783	49,496	115,611

Table 11 (contd). Run#11, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	-	-	-	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	68,773	29,368	14,741	-
13	Tex./Oklahoma	22,813	6,558	7,535	86
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	49	-	3	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	91,634	35,826	22,279	86

Table 11 (contd). Run #11, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,330	-	167	147
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	1,132	122	161	183
19	Iowa	13,528	1,216	1,825	1,093
20	Kansas	27,165	-	2,721	2,739
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	3,571	-	409	465
29	Missouri	342	45	39	39
31	Nebraska	5,002	-	510	106
36	New York	762	-	38	38
37	North Carolina	2,070	178	-	245
39	Ohio	3,426	407	321	186
46	South Dakota	9,767	281	879	898
55	Wisconsin	15,755	-	2,607	2,575
56	Wyoming	-	-	-	-
	Total	109,681	4,048	11,296	13,845

Table 12. Run #12, Part (a) - Acreage, Production and Cost Data

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,648	105	2,343	307
2	Iowa/Missouri	-	6,804	10,892	2,681	5,632	824
3	Minn./Wisc.	-	3,890	3,019	3,899	-	8,954
4	Michigan	-	492	34	2,372	-	2,124
5	Ohio/Indiana	-	5,512	3,744	3,827	1,549	1,822
7	Mid-Atlantic	-	2,816	11	2,602	-	939
8	Va./W.Va./N.C.	30	2,420	30	1,288	10	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	42	1,622	39	123	80	785
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	2,998	2,378	1,982	735	243	918
13	Tex./Oklahoma	8,895	2,250	1,025	10,637	4,598	5,555
14	Kan./Neb.	-	7,957	4,117	19,318	4,322	974
15	N.D./S.D.	-	4,219	8,886	8,859	202	10,172
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	107	-	-	172	214	33
20	Wash./Ore.	-	-	-	4,213	-	301
21	California	48	1,345	-	2,164	640	467
	Total	12,187	52,711	42,762	71,591	20,072	38,992
	Total Production	6,928,696	276,024,795	75,459,794	130,156,679	69,856,136	68,638,270
	Total Cost	941,075	2,821,345	1,336,694	1,589,349	658,572	639,176
	Transportation Costs	-	268,102	84,863	380,131	49,989	113,670

Table 12 (contd). Run #12, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	1,078	480	740	281
11	Fla.	-	-	-	-
12	Ark./La./Miss.	47,709	17,628	8,999	142
13	Tex./Oklahoma	67,652	6,544	11,852	50
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	16	-	4	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	116,456	24,652	21,095	474

Table 12 (contd). Run #12, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,330	-	167	147
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,130	432	331	187
19	Iowa	13,597	1,214	1,821	1,093
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	3,397	-	21	421
29	Missouri	338	44	37	37
31	Nebraska	4,857	-	500	114
36	New York	762	-	38	38
37	North Carolina	2,070	178	-	244
39	Ohio	1,248	84	132	168
46	South Dakota	9,567	280	858	874
55	Wisconsin	15,028	-	2,509	2,534
56	Wyoming	-	-	-	-
	Total	108,354	4,032	11,164	13,709

Table 13. Run #13, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,624	8,788	105	2,343	307
2	Iowa/Missouri	-	6,831	10,892	2,506	5,632	795
3	Minn./Wisc.	-	4,423	3,123	3,979	-	8,237
4	Michigan	-	492	34	2,372	-	2,124
5	Ohio/Indiana	-	5,512	3,744	3,800	1,549	1,849
7	Mid-Atlantic	-	2,816	11	2,791	-	750
8	Va./W.Va./N.C.	30	2,420	30	1,288	71	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	202	1,622	39	123	80	561
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	3,725	1,779	1,853	735	243	918
13	Tex./Oklahoma	8,010	2,266	1,025	11,229	4,875	5,555
14	Kan./Neb.	-	7,957	4,117	18,885	4,742	974
15	N.D./S.D.	-	4,222	8,849	8,893	1	10,174
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	10	2,178
18	Ariz./N.M.	71	34	-	172	214	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	48	1,345	-	2,139	640	467
	Total	12,154	52,551	42,840	71,824	20,783	37,882
	Total Production	6,928,696	276,530,221	75,673,321	130,148,679	71,481,264	66,306,402
	Total Cost	925,889	2,822,371	1,338,898	1,585,771	679,697	613,023
	Transportation Costs	-	274,968	85,039	376,002	49,995	116,500

Table 13 (contd). Run #13, Part (b) Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	1,864	806	403	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	43,532	12,984	7,668	142
13	Tex./Oklahoma	56,271	6,518	10,567	23
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	11	-	3	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	101,678	20,307	18,640	165

Table 13 (contd). Run #13, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,330	-	167	147
17	Illinois	19,163	1,322	1,355	4,262
18	Indiana	3,130	432	331	187
19	Iowa	13,657	1,219	1,829	1,097
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	612	612
29	Missouri	338	44	37	37
31	Nebraska	4,857	-	500	114
36	New York	762	-	38	38
37	North Carolina	2,070	178	-	245
39	Ohio	1,248	84	132	168
46	South Dakota	9,571	280	858	875
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	107,839	3,987	11,136	13,675

Table 14. Run #14, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,755	105	2,336	307
2	Iowa/Missouri	-	6,866	10,892	2,364	5,632	866
3	Minn./Wisc.	-	4,423	3,123	4,011	-	8,205
4	Michigan	-	492	34	2,516	-	2,125
5	Ohio/Indiana	-	5,685	3,744	3,868	1,549	1,781
7	Mid-Atlantic	-	2,816	11	2,603	-	939
8	Va./W.Va./N.C.	30	2,747	30	1,288	71	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	-	1,950	39	123	80	691
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	1,977	2,449	2,141	735	339	918
13	Tex./Oklahoma	10,634	2,688	936	9,486	4,846	4,370
14	Kan./Neb.	-	8,230	4,117	20,648	2,823	856
15	N.D./S.D.	-	4,219	8,881	8,865	202	10,172
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	107	34	-	172	214	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	48	1,345	-	2,254	640	467
	Total	12,864	54,915	43,038	71,845	18,825	36,867
	Total Production	6,928,696	282,111,634	75,903,914	130,167,339	67,286,876	64,878,911
	Total Cost	934,106	2,887,413	1,346,297	1,603,919	635,785	603,243
	Transportation Costs	-	261,017	85,358	389,738	49,494	114,362

Table 14 (contd). Run #14, Part (b) - Insect Control Cost and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	-	-	-	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	72,967	31,448	15,831	-
13	Tex./Oklahoma	23,534	6,834	7,868	101
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	16	-	4	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	96,248	38,282	23,702	101

Table 14 (contd). Run #14, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,330	-	167	147
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,130	433	331	187
19	Iowa	13,735	1,226	1,640	1,104
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	5,185	-	555	114
36	New York	762	-	38	38
37	North Carolina	2,374	204	-	281
39	Ohio	1,428	96	151	192
46	South Dakota	9,567	280	858	874
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	110,215	4,083	11,343	13,865

Table 15. Run #15, Part (a) - Acreage, Production and Cost Data

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,755	105	2,336	307
2	Iowa/Missouri	-	6,794	10,892	2,719	5,632	797
3	Minn./Wisc.	-	4,423	3,123	3,899	-	8,316
4	Michigan	-	492	34	2,372	-	2,124
5	Ohio/Indiana	-	5,512	3,744	3,800	1,549	1,849
7	Mid-Atlantic	-	2,816	11	3,603	-	939
8	Va./W.Va./N.C.	30	2,420	30	1,288	71	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	-	1,622	39	123	80	562
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	2,665	2,378	1,982	735	339	918
13	Tex./Oklahoma	9,462	2,731	1,025	10,204	4,757	4,780
14	Kan./Neb.	-	7,957	4,117	19,761	3,983	856
15	N.D./S.D.	-	4,219	8,885	8,861	202	10,172
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	107	34	-	172	214	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	48	1,345	-	2,149	640	467
	Total	12,380	53,715	42,960	71,598	19,895	37,260
	Total Production	6,928,696	278,786,966	75,805,495	130,148,679	69,999,060	65,517,401
	Total Cost	967,034	2,852,927	1,343,964	1,591,560	656,569	607,131
	Transportation Costs	-	266,315	84,985	383,855	49,496	114,971

Table 15 (contd). Run #15, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	-	-	-	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	70,051	29,319	15,002	142
13	Tex./Oklahoma	62,765	4,602	9,927	51
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	178	-	-	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	132,995	33,921	24,929	193

Table 15 (contd). Run #15, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,330	-	167	147
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,130	433	331	187
19	Iowa	13,574	1,212	1,818	1,091
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	4,857	-	500	114
36	New York	762	-	38	38
37	North Carolina	2,070	178	-	245
39	Ohio	1,248	84	132	168
46	South Dakota	9,567	280	858	874
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	109,243	4,030	11,247	13,792

Table 16. Run #16, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,649	105	2,343	307
2	Iowa/Missouri	-	6,800	10,892	2,697	5,632	813
3	Minn./Wisc.	-	3,890	3,019	3,899	-	8,954
4	Michigan	-	492	34	2,372	-	2,124
5	Ohio/Indiana	-	5,512	3,769	3,816	1,549	1,833
7	Mid-Atlantic	-	2,816	11	2,639	-	902
8	Va./W.Va./N.C.	30	2,420	30	1,288	71	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	-	1,622	39	123	80	785
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	2,794	2,471	2,042	735	243	918
13	Tex./Oklahoma	9,087	2,780	1,025	10,536	4,757	4,775
14	Kan./Neb.	-	7,957	4,117	19,404	4,222	974
15	N.D./S.D.	-	4,219	8,928	8,817	202	10,172
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	107	34	-	172	214	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	48	1,345	-	2,164	640	467
	Total	12,135	53,329	42,928	71,574	20,145	38,198
	Total Production	6,928,696	276,591,287	76,654,017	125,210,379	70,496,890	67,345,906
	Total Cost	944,725	2,827,603	1,339,649	1,590,300	662,042	627,136
	Transportation Costs	-	266,712	84,957	380,689	50,149	113,941

Table 16 (contd). Run #16, Part (b) - Insect Control Costs and Insectcide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	-	-	-	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	63,537	18,502	13,046	178
13	Tex./Oklahoma	48,071	4,602	8,050	51
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	178	-	-	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	111,786	23,104	21,096	228

Table 16 (contd). Run #16, Part (c) - Insect Control Cost and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,330	-	167	147
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,130	433	331	187
19	Iowa	13,588	1,213	1,820	1,092
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	3,397	-	421	421
29	Missouri	338	44	37	37
31	Nebraska	4,857	-	500	114
36	New York	762	-	38	38
37	North Carolina	2,070	178	-	245
39	Ohio	1,248	84	132	168
46	South Dakota	9,567	280	858	874
55	Wisconsin	15,028	-	2,509	2,534
56	Wyoming	-	-	-	-
	Total	108,344	4,031	11,163	13,708

Table 17. Run #17, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,755	105	2,236	307
2	Iowa/Missouri	-	6,823	10,892	2,608	5,632	866
3	Minn./Wisc.	-	3,890	3,019	3,899	-	8,954
4	Michigan	-	492	34	2,372	-	2,124
5	Ohio/Indiana	-	5,523	3,744	3,883	1,549	1,766
7	Mid-Atlantic	-	2,816	11	2,653	-	889
8	Va./W.Va./N.C.	30	2,420	30	1,288	71	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	42	1,621	39	123	80	785
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	2,841	2,378	2,042	735	338	918
13	Tex./Oklahoma	9,080	2,768	1,025	10,536	4,757	4,794
14	Kan./Neb.	-	7,957	4,117	19,404	4,222	974
15	N.D./S.D.	-	4,233	8,825	8,893	202	10,186
16	Idaho/Montana	-	39	-	5,309	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	107	34	-	172	214	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	48	1,345	-	2,139	640	467
	Total	12,216	53,272	42,869	71,617	20,135	38,202
	Total Production	6,928,696	276,591,783	75,607,903	130,148,679	70,496,890	67,345,338
	Total Cost	954,238	2,825,950	1,340,971	1,590,442	661,193	626,691
	Transportation Costs	-	267,478	84,732	381,265	49,496	114,244

Table 17 (contd). Run #17, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	1,078	480	240	281
11	Fla.	-	-	-	-
12	Ark./La./Miss.	55,480	22,652	11,524	142
13	Tex./Oklahoma	60,703	3,387	8,705	51
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	178	-	-	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	117,440	26,520	20,470	474

Table 17 (contd). Run #17, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,330	-	167	177
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,130	433	331	187
19	Iowa	13,639	1,218	1,827	1,096
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-		226
27	Minnesota	3,397	-	421	421
29	Missouri	378	44	38	37
31	Nebraska	4,857	-	500	114
36	New York	762	-	38	38
37	North Carolina	2,070	178	-	245
39	Ohio	1,260	85	133	170
46	South Dakota	9,593	281	861	877
55	Wisconsin	15,028	-	2,509	2,534
56	Wyoming	-	-	-	-
	Total	108,434	4,037	11,174	13,717

Table 18. Run #18, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,648	105	2,343	307
2	Iowa/Missouri	-	6,820	10,892	2,624	5,632	866
3	Minn./Wisc.	-	4,423	3,123	3,899	-	8,316
4	Michigan	-	492	34	2,425	-	2,124
5	Ohio/Indiana	-	5,685	3,744	3,916	1,549	1,733
7	Mid-Atlantic	-	2,816	11	2,603	-	939
8	Va./W.Va./N.C.	30	2,420	30	1,288	71	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	202	1,622	39	123	80	561
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	3,130	1,850	1,792	735	243	918
13	Tex./Oklahoma	9,049	2,250	1,025	10,399	4,682	5,555
14	Kan./Neb.	-	8,230	4,117	19,251	3,949	857
15	N.D./S.D.	-	4,226	9,071	8,661	202	10,179
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	107	34	-	172	214	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	48	1,345	-	2,254	640	467
	Total	12,814	53,185	42,861	71,532	19,797	37,994
	Total Production	6,928,696	279,279,559	75,640,046	130,148,679	68,466,855	66,635,738
	Total Cost	945,246	2,851,144	1,337,090	1,596,454	649,276	616,872
	Transportation Costs	-	271,246	85,596	380,590	50,149	114,754

Table 18 (contd). Run #18, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	2,670	1,209	605	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	45,415	18,065	9,034	-
13	Tex./Oklahoma	55,880	6,556	9,909	23
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	178	-	-	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	104,143	25,829	19,548	23

Table 18 (contd). Run #18, Part (c) - Insect Control Costs and Insecticide use per acre.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,330	-	167	147
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,130	433	331	187
19	Iowa	13,632	1,217	1,826	1,095
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	5,185	-	555	114
36	New York	762	-	38	38
37	North Carolina	2,070	178	-	245
39	Ohio	1,428	96	151	192
46	South Dakota	9,580	280	859	876
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	109,822	4,047	11,330	13,822

Table 19. Run #19, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,599	8,813	105	2,343	307
2	Iowa/Missouri	-	6,821	10,864	2,506	5,546	797
3	Minn./Wisc.	-	4,423	3,123	3,979	-	8,237
4	Michigan	-	492	34	2,372	-	2,124
5	Ohio/Indiana	-	5,512	3,744	3,800	1,549	1,849
7	Mid-Atlantic	-	2,816	11	2,791	-	750
8	Va./W.Va./N.C.	30	2,403	30	1,288	71	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	-	1,622	39	123	80	561
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	3,381	2,124	1,853	734	243	918
13	Tex./Oklahoma	8,752	2,266	1,025	10,870	4,491	5,555
14	Kan./Neb.	-	7,957	4,117	19,135	4,492	974
15	N.D./S.D.	-	4,219	8,853	8,893	202	10,172
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	393	-	2,372	142	2,177
18	Ariz./N.M.	28	34	-	172	257	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	48	1,345	-	2,139	640	467
	Total	12,307	52,840	42,841	71,715	20,107	37,882
	Total Production	6,928,696	277,609,211	75,674,356	130,151,679	70,418,668	96,355,299
	Total Cost	911,068	2,834,093	1,338,906	1,588,519	668,538	613,031
	Transportation Costs	-	270,073	85,008	378,475	49,218	116,496

Table 19 (contd). Run #19, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	-	-	-	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	41,867	16,321	8,163	-
13	Tex./Oklahoma	55,847	6,556	8,294	23
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	40	-	-	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	97,753	22,877	16,457	23

Table 19 (contd). Run #19, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,330	-	167	147
17	Illinois	18,893	1,313	1,332	4,239
18	Indiana	3,130	433	331	187
19	Iowa	13,634	1,217	1,826	1,096
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	4,857	-	500	114
36	New York	762	-	38	38
37	North Carolina	2,054	177	-	243
39	Ohio	1,248	84	132	168
46	South Dakota	9,567	280	858	874
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	107,525	3,974	11,110	13,648

Table 20. Run #20, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	7,764	8,648	105	2,343	307
2	Iowa/Missouri	-	6,820	10,892	2,624	5,632	866
3	Minn./Wisc.	-	4,423	3,123	3,920	-	8,296
4	Michigan	-	492	34	2,372	-	2,124
5	Ohio/Indiana	-	5,685	3,744	3,917	1,549	1,732
7	Mid-Atlantic	-	2,816	11	2,603	-	939
8	Va./W.Va./N.C.	30	2,420	30	1,288	71	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	202	1,622	39	123	80	561
11	Fla.	-	352	50	-	-	11
12	Ark./La./Miss.	3,401	1,850	1,853	735	243	918
13	Tex./Oklahoma	9,014	2,250	1,025	10,234	4,682	5,555
14	Kan./Neb.	-	8,230	4,117	19,491	3,949	887
15	N.D./S.D.	-	4,227	9,015	8,716	203	10,179
16	Idaho/Montana	-	39	-	5,336	-	2,208
17	Colorado/Wy.	-	393	-	2,372	142	2,117
18	Ariz./N.M.	72	34	-	172	214	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	48	1,345	-	2,232	640	467
	Total	12,834	53,186	42,866	71,538	19,797	38,004
	Total Production	6,928,696	279,280,608	75,638,275	130,148,679	68,466,854	66,634,328
	Total Cost	925,705	2,851,151	1,337,907	1,594,796	649,276	617,003
	Transportation Costs	-	271,246	85,364	380,678	50,149	114,742

Table 20 (contd). Run #20, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	1,864	806	403	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	38,085	12,138	7,810	-
13	Tex./Oklahoma	44,494	6,418	8,162	23
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	116	-	-	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	84,559	19,362	16,375	23

Table 20 (contd). Run #20, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,330	-	167	147
17	Illinois	20,654	1,372	1,478	4,387
18	Indiana	3,130	433	331	187
19	Iowa	13,632	1,217	1,826	1,095
20	Kansas	27,310	-	2,731	2,731
21	Kentucky	3,698	427	142	508
26	Michigan	1,369	-	-	226
27	Minnesota	4,941	-	613	613
29	Missouri	338	44	37	37
31	Nebraska	5,185	-	555	114
36	New York	762	-	38	38
37	North Carolina	2,070	178	-	245
39	Ohio	1,428	96	151	192
46	South Dakota	9,580	280	859	876
55	Wisconsin	14,395	-	2,403	2,427
56	Wyoming	-	-	-	-
	Total	109,823	4,047	11,330	13,823

Table 21. Run #21, Part (a) - Acreage Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	10,566	5,908	217	2,281	339
2	Iowa/Missouri	179	6,950	11,324	3,382	4,372	627
3	Minn./Wisc.	-	4,144	4,045	3,935	-	7,765
4	Michigan	-	528	34	2,614	-	2,130
5	Ohio/Indiana	-	5,230	4,199	3,800	1,549	1,977
7	Mid-Atlantic	-	3,425	11	2,183	-	750
8	Va./W.Va./N.C.	247	3,264	30	1,230	69	119
9	Ky./Tenn.	311	2,323	286	622	50	97
10	Ala./Ga./S.C.	1,205	1,872	39	206	80	1,450
11	Fla.	15	337	50	-	-	11
12	Ark./La./Miss.	2,451	2,224	2,082	768	279	918
13	Tex./Oklahoma	11,130	1,671	1,025	9,760	4,529	5,450
14	Kan./Neb.	-	5,915	4,207	20,454	5,496	856
15	N.D./S.D.	-	3,002	10,678	7,604	988	10,119
16	Idaho/Montana	-	39	-	5,345	-	2,258
17	Colorado/Wy.	-	388	-	2,372	142	2,201
18	Ariz./N.M.	301	34	-	171	329	33
20	Wash./Ore.	-	62	-	4,218	-	301
21	California	507	1,598	-	2,002	640	467
	Total	16,346	53,574	43,916	71,151	20,802	38,035
	Total Production	6,928,696	274,539,367	76,152,941	127,030,659	72,673,367	66,494,330
	Total Cost	1,313,496	2,879,473	1,355,024	1,587,352	664,925	631,557
	Transportation Costs	-	246,208	92,468	375,967	48,342	111,925

Table 21 (contd). Run #21, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	-	-	-	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	-	-	-	-
13	Tex./Oklahoma	-	-	-	-
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	-	-	-	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	0	0	0	0

Table 21 (contd). Run #21, Part (c) - Insect Control Costs and Insecticide Used on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	-	-	-	-
17	Illinois	-	-	-	-
18	Indiana	-	-	-	-
19	Iowa	-	-	-	-
20	Kansas	-	-	-	-
21	Kentucky	-	-	-	-
26	Michigan	-	-	-	-
27	Minnesota	-	-	-	-
29	Missouri	-	-	-	-
31	Nebraska	-	-	-	-
36	New York	-	-	-	-
37	North Carolina	-	-	-	-
39	Ohio	-	-	-	-
46	South Dakota	-	-	-	-
55	Wisconsin	-	-	-	-
56	Wyoming	-	-	-	-
	Total	0	0	0	0

Table 22. Run #22, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	10,566	5,972	217	2,217	339
2	Iowa/Missouri	-	6,935	11,464	3,491	4,318	627
3	Minn./Wisc.	-	3,987	4,168	3,935	-	7,798
4	Michigan	-	342	248	2,589	-	2,128
5	Ohio/Indiana	-	4,991	4,438	3,800	1,549	1,977
7	Mid-Atlantic	-	3,425	11	2,183	-	750
8	Va./W.Va./N.C.	30	3,211	30	1,288	71	119
9	Ky./Tenn.	68	2,348	286	619	50	97
10	Ala./Ga./S.C.	-	2,233	39	133	80	1,310
11	Fla.	-	352	50	682	-	11
12	Ark./La./Miss.	2,090	2,542	2,175	53	334	918
13	Tex./Oklahoma	11,952	2,777	1,025	9,048	4,751	3,625
14	Kan./Neb.	-	6,260	3,862	20,728	5,221	856
15	N.D./S.D.	-	3,385	10,221	7,862	988	9,935
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	388	-	2,372	142	2,201
18	Ariz./N.M.	155	34	-	172	335	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	283	1,588	-	2,135	640	467
	Total	14,579	55,478	43,988	71,123	20,895	35,916
	Total Production	6,928,696	312,848,490	76,488,745	128,226,411	74,112,053	63,207,060
	Total Cost	1,015,189	2,881,514	1,366,414	1,599,233	680,041	598,129
	Transportation Costs	-	242,188	91,584	381,828	48,810	111,779

Table 22 (contd). Run #22, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	-	-	-	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	-	-	-	-
9	Ky./Tenn.	-	-	-	-
10	Ala./Ga./S.C.	-	-	-	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	-	-	-	-
13	Tex./Oklahoma	-	-	-	-
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	-	-	-	-
20	Wash./Ore.	-	-	-	-
21	California	-	-	-	-
	Total	0	0	0	0

Table 22 (contd). Run #22, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	-	-	-	-
17	Illinois	-	-	-	-
18	Indiana	-	-	-	-
19	Iowa	-	-	-	-
20	Kansas	-	-	-	-
21	Kentucky	-	-	-	-
26	Michigan	-	-	-	-
27	Minnesota	-	-	-	-
29	Missouri	-	-	-	-
31	Nebraska	-	-	-	-
36	New York	-	-	-	-
37	North Carolina	-	-	-	-
39	Ohio	-	-	-	-
46	South Dakota	-	-	-	-
55	Wisconsin	-	-	-	-
56	Wyoming	-	-	-	-
	Total	0	0	0	0

Table 23. Run #23, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	6,414	7,299	383	2,194	35
2	Iowa/Missouri	179	6,553	6,438	2,293	4,240	1,727
3	Minn./Wisc.	-	3,054	2,274	2,261	-	10,689
4	Michigan	-	475	34	1,142	-	1,850
5	Ohio/Indiana	-	4,332	3,289	-	1,504	559
7	Mid-Atlantic	-	3,188	11	2,230	-	939
8	Va./W.Va./N.C.	247	2,203	30	1,143	69	119
9	Ky./Tenn.	310	2,269	65	26	50	77
10	Ala./Ga./S.C.	1,205	24	39	38	80	410
11	Fla.	15	352	-	-	-	11
12	Ark./La./Miss.	2,626	1,064	168	53	134	27
13	Tex./Oklahoma	3,975	848	485	10,975	4,210	5,123
14	Kan./Neb.	-	7,102	3,994	8,881	7,684	1,625
15	N.D./S.D.	-	3,322	5,858	6,081	202	10,246
16	Idaho/Montana	-	39	-	4,103	-	2,075
17	Colorado/Wy.	-	241	-	2,438	10	1,461
18	Ariz./N.M.	258	34	-	187	100	33
20	Wash./Ore.	-	62	-	3,881	-	301
21	California	418	1,345	-	1,204	640	467
	Total	11,933	42,937	29,983	47,589	21,118	37,227
	Total Production	6,928,696	231,626,162	54,882,194	88,522,681	67,712,488	67,488,851
	Total Cost	1,199,670	2,266,647	912,555	971,369	591,698	580,817
	Transportation Costs	-	229,629	57,043	159,891	55,959	123,472

Table 23 (contd). Run #23, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	215	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	5,639	2,215	1,147	-
9	Ky./Tenn.	4,428	2,032	1,016	-
10	Ala./Ga./S.C.	55,137	22,211	11,544	3,170
11	Fla.	-	-	-	-
12	Ark./La./Miss.	39,463	16,767	8,892	1,607
13	Tex./Oklahoma	19,872	3,592	3,927	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,600	1,685	846	-
20	Wash./Ore.	-	-	-	-
21	California	3,428	128	403	128
	Total	132,782	48,629	27,806	5,000

Table 23 (contd). Run #23, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,330	-	167	147
17	Illinois	10,548	912	683	3,006
18	Indiana	1,323	55	182	164
19	Iowa	13,034	1,164	1,746	1,047
20	Kansas	16,458	-	1,646	1,646
21	Kentucky	3,698	427	142	508
26	Michigan	1,322	-	-	219
27	Minnesota	3,204	-	397	397
29	Missouri	338	44	37	37
31	Nebraska	5,501	-	555	133
36	New York	2,250	-	113	113
37	North Carolina	1,868	101	-	221
39	Ohio	1,018	69	108	137
46	South Dakota	12,790	297	1,207	1,256
55	Wisconsin	6,245	-	1,044	1,060
56	Wyoming	-	-	-	-
	Total	80,928	3,127	8,025	10,092

Table 24. Run #24, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	6,441	7,272	382	2,194	35
2	Iowa/Missouri	179	6,553	6,438	2,293	4,240	1,727
3	Minn./Wisc.	-	3,054	2,274	2,261	-	10,689
4	Michigan	-	475	34	1,142	-	1,850
5	Ohio/Indiana	-	4,332	3,289	-	1,504	559
7	Mid-Atlantic	-	3,188	11	2,230	-	939
8	Va./W.Va./N.C.	247	2,233	30	1,143	69	119
9	Ky./Tenn.	310	2,269	65	26	50	97
10	Ala./Ga./S.C.	1,205	24	39	38	80	410
11	Fla.	15	352	-	-	-	11
12	Ark./La./Miss.	2,549	1,001	69	53	134	27
13	Tex./Oklahoma	7,618	848	485	10,510	4,288	5,123
14	Kan./Neb.	-	7,095	3,994	8,889	7,684	893
15	N.D./S.D.	-	3,322	6,107	6,395	202	10,246
16	Idaho/Montana	-	39	-	4,103	-	2,075
17	Colorado/Wy.	-	241	-	2,438	10	1,461
18	Ariz./N.M.	258	34	-	181	127	33
20	Wash./Ore.	-	62	-	3,881	-	301
21	California	418	1,345	-	1,221	640	467
	Total	12,799	42,923	30,107	47,457	21,224	37,227
	Total Production	6,928,696	231,582,883	54,882,194	88,586,845	67,699,785	67,488,851
	Total Cost	1,157,271	2,267,429	914,265	971,875	592,331	580,817
	Transportation Costs	-	229,630	57,573	163,998	55,237	123,472

Table 24 (contd). Run #24, Part (b) - Insect Control Costs and Insecticide use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	215	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	2,605	867	473	-
9	Ky./Tenn.	873	255	126	-
10	Ala./Ga./S.C.	34,170	10,139	8,070	2,189
11	Fla.	-	-	-	-
12	Ark./La./Miss.	8,059	1,518	1,113	-
13	Tex./Oklahoma	20,123	4,210	4,787	90
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	2,507	848	427	
20	Wash./Ore.	-	-	-	-
21	California	3,428	128	403	128
	Total	71,980	23,965	15,431	2,407

Table 24 (contd). Run #24, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,330	-	167	147
17	Illinois	10,814	938	699	3,111
18	Indiana	1,323	55	182	164
19	Iowa	13,034	1,164	1,746	1,047
20	Kansas	16,458	-	1,646	1,646
21	Kentucky	3,698	427	142	508
26	Michigan	1,322	-	-	219
27	Minnesota	3,204	-	397	397
29	Missouri	338	44	37	37
31	Nebraska	5,465	-	553	132
36	New York	2,250	-	113	113
37	North Carolina	1,895	163	-	224
39	Ohio	1,018	69	108	137
46	South Dakota	12,790	297	1,207	1,256
55	Wisconsin	6,245	-	1,044	1,060
56	Wyoming	-	-	-	-
	Total	81,185	3,156	8,039	10,199

Table 25. Run #25, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	6,408	7,305	383	2,194	35
2	Iowa/Missouri	179	6,553	6,438	2,293	4,240	1,727
3	Minn./Wisc.	-	3,054	2,274	2,261	-	10,689
4	Michigan	-	475	34	1,142	-	1,850
5	Ohio/Indiana	-	4,339	3,289	-	1,497	559
7	Mid-Atlantic	-	3,180	11	2,239	-	939
8	Va./W.Va./N.C.	247	2,203	30	1,143	69	119
9	Ky./Tenn.	310	2,269	65	26	50	97
10	Ala./Ga./S.C.	1,205	24	39	38	80	410
11	Fla.	15	352	-	-	-	11
12	Ark./La./Miss.	2,328	1,064	168	53	143	27
13	Tex./Oklahoma	7,567	848	485	10,801	4,205	5,123
14	Kan./Neb.	-	7,118	3,994	8,866	7,684	993
15	N.D./S.D.	-	3,322	5,877	6,217	202	10,246
16	Idaho/Montana	-	39	-	4,103	-	2,075
17	Colorado/Wy.	-	241	-	2,438	10	1,461
18	Ariz./N.M.	258	34	-	187	100	33
20	Wash./Ore.	-	62	-	3,881	-	301
21	California	418	1,345	-	1,220	640	467
	Total	12,528	42,944	30,072	47,560	21,115	37,227
	Total Production	6,928,696	231,585,426	54,882,194	38,583,074	67,700,531	67,488,851
	Total Cost	1,237,943	2,267,028	913,277	971,549	591,621	580,817
	Transportation Costs	-	229,866	57,026	161,411	55,822	123,472

Table 25 (contd). Run #25, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	527	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	9,040	3,820	1,912	-
9	Ky./Tenn.	4,428	2,032	1,016	-
10	Ala./Ga./S.C.	58,887	25,754	13,132	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	56,694	24,618	13,346	656
13	Tex./Oklahoma	27,018	5,308	5,528	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,738	1,685	843	-
20	Wash./Ore.	-	-	-	-
21	California	4,386	128	486	161
	Total	165,719	63,345	36,295	912

Table 25 (contd). Run #25, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,330	-	167	147
17	Illinois	10,488	906	679	2,982
18	Indiana	1,345	60	184	164
19	Iowa	13,034	1,164	1,746	1,047
20	Kansas	16,458	-	1,646	1,646
21	Kentucky	3,698	427	142	508
26	Michigan	1,322	-	-	219
27	Minnesota	3,204	-	397	397
29	Missouri	338	44	37	37
31	Nebraska	5,572	-	559	136
36	New York	2,216	-	111	111
37	North Carolina	1,868	161	-	221
39	Ohio	1,018	69	108	137
46	South Dakota	12,790	297	1,207	1,256
55	Wisconsin	6,245	-	1,044	1,061
56	Wyoming	-	-	-	-
	Total	80,926	3,126	8,025	10,069

Table 26. Run #26, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	6,416	7,297	382	2,194	35
2	Iowa/Missouri	179	6,553	6,438	2,293	4,240	1,727
3	Minn./Wisc.	-	3,054	2,274	2,201	-	10,689
4	Michigan	-	475	34	1,142	-	1,850
5	Ohio/Indiana	-	4,332	3,289	-	1,504	559
7	Mid-Atlantic	-	3,188	11	2,230	-	939
8	Va./W.Va./N.C.	247	2,203	30	1,143	69	119
9	Ky./Tenn.	310	2,269	65	26	50	97
10	Ala./Ga./S.C.	1,205	24	39	38	80	410
11	Fla.	15	352	-	-	-	11
12	Ark./La./Miss.	2,724	1,064	69	53	134	27
13	Tex./Oklahoma	6,530	848	485	11,091	4,211	5,123
14	Kan./Neb.	-	7,102	3,994	8,881	7,684	893
15	N.D./S.D.	-	3,322	5,980	5,998	202	10,246
16	Idaho/Montana	-	39	-	4,103	-	2,075
17	Colorado/Wy.	-	241	-	2,438	10	1,461
18	Ariz./N.M.	257	34	-	187	100	33
20	Wash./Ore.	-	62	-	3,881	-	301
21	California	418	1,345	-	1,199	640	467
	Total	11,887	42,939	30,005	47,617	21,120	37,227
	Total Production	6,928,696	231,639,274	54,882,194	88,503,241	67,716,337	67,488,815
	Total Cost	1,189,961	2,266,788	911,930	971,616	591,721	580,817
	Transportation Costs	-	229,710	57,502	158,834	55,984	123,472

Table 26 (contd). Run #26, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	4,825	1,951	976	-
9	Ky./Tenn.	873	255	126	-
10	Ala./Ga./S.C.	42,873	19,122	9,561	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	31,882	12,516	6,260	-
13	Tex./Oklahoma	23,026	4,036	4,256	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,738	1,685	843	-
20	Wash./Ore.	-	-	-	-
21	California	4,386	128	486	161
	Total	113,133	39,692	22,539	257

Table 26 (contd). Run #26, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,330	-	167	147
17	Illinois	10,568	913	684	3,014
18	Indiana	1,323	55	182	164
19	Iowa	13,034	1,164	1,746	1,047
20	Kansas	16,458	-	1,646	1,046
21	Kentucky	3,698	427	142	508
26	Michigan	1,322	-	-	219
27	Minnesota	3,204	-	397	397
29	Missouri	338	44	37	37
31	Nebraska	5,501	-	555	133
36	New York	2,250	-	113	113
37	North Carolina	1,868	161	-	221
39	Ohio	1,018	69	108	137
46	South Dakota	12,790	297	1,207	1,256
55	Wisconsin	6,245	-	1,044	1,061
56	Wyoming	-	-	-	-
	Total	80,948	3,129	8,026	10,100

Table 27. Run #27, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	6,413	7,300	383	2,194	35
2	Iowa/Missouri	179	6,553	6,438	2,293	4,240	1,727
3	Minn./Wisc.	-	3,052	2,274	2,261	-	10,689
4	Michigan	-	475	34	1,142	-	1,850
5	Ohio/Indiana	-	4,332	3,289	-	1,504	559
7	Mid-Atlantic	-	3,188	11	2,230	-	939
8	Va./W.Va./N.C.	347	2,203	30	1,143	69	119
9	Ky./Tenn.	310	2,269	65	26	50	97
10	Ala./Ga./S.C.	1,205	24	39	38	80	410
11	Fla.	15	352	-	-	-	11
12	Ark./La./Miss.	2,128	1,064	69	53	134	27
13	Tex./Oklahoma	8,449	848	485	10,649	3,702	5,123
14	Kan./Neb.	-	7,102	3,994	8,881	7,684	893
15	N.D./S.D.	-	3,322	6,039	6,297	202	10,246
16	Idaho/Montana	-	39	-	4,103	-	2,075
17	Colorado/Wy.	-	241	-	2,438	10	1,461
18	Ariz./N.M.	258	34	-	172	164	33
20	Wash./Ore.	-	62	-	3,881	-	301
21	California	418	1,345	-	1,207	640	467
	Total	13,210	42,936	30,067	47,466	20,674	27,227
	Total Production	6,928,696	231,619,627	54,882,194	88,532,370	67,710,570	67,488,851
	Total Cost	1,158,202	2,226,577	913,574	973,286	589,266	580,817
	Transportation Costs	-	229,589	57,493	162,621	54,449	123,472

Table 27 (contd). Run #27, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	3,093	1,182	591	-
9	Ky./Tenn.	873	242	121	-
10	Ala./Ga./S.C.	28,660	14,031	7,016	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	19,805	5,878	3,925	-
13	Tex./Oklahoma	36,378	3,491	4,938	26
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	2,645	848	424	-
20	Wash./Ore.	-	-	-	-
21	California	3,686	128	403	128
	Total	95,669	25,801	17,449	154

Table 27 (contd). Run #27, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	1,330	-	167	147
17	Illinois	10,539	911	682	3,002
18	Indiana	1,323	55	182	164
19	Iowa	13,034	1,164	1,746	1,047
20	Kansas	16,458	-	1,646	1,646
21	Kentucky	3,698	427	142	508
26	Michigan	1,322	-	-	219
27	Minnesota	3,204	-	397	397
29	Missouri	338	44	37	37
31	Nebraska	5,501	-	555	133
36	New York	2,250	-	113	113
37	North Carolina	1,868	161	-	221
39	Ohio	1,018	69	108	137
46	South Dakota	12,790	297	1,207	1,256
55	Wisconsin	6,245	-	1,044	1,061
56	Wyoming	-	-	-	-
	Total	95,669	25,801	17,449	154

Table 28. Run #28, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	10,710	6,877	377	1,691	35
2	Iowa/Missouri	179	9,373	13,505	1,523	2,128	352
3	Minn./Wisc.	-	8,292	4,829	5,691	-	1,574
4	Michigan	-	1,115	704	3,799	-	23
5	Ohio/Indiana	-	8,845	4,904	4,188	149	44
7	Mid-Atlantic	-	2,816	11	3,481	-	60
8	Va./W.Va./N.C.	247	4,307	30	1,423	69	119
9	Ky./Tenn.	310	2,515	499	1,709	50	97
10	Ala./Ga./S.C.	1,205	1,313	6,581	3,121	80	3,506
11	Fla.	15	18	1,659	-	-	11
12	Ark./La./Miss.	3,542	787	6,252	2,133	134	1,658
13	Tex./Oklahoma	4,742	6,571	4,005	10,189	6,070	3,612
14	Kan./Neb.	-	10,645	3,145	23,305	253	22
15	N.D./S.D.	-	4,513	9,495	16,663	218	2,438
16	Idaho/Montana	-	39	-	5,432	-	4,598
17	Colorado/Wy.	-	1,159	-	513	10	1,565
18	Ariz./N.M.	305	34	-	789	494	54
20	Wash./Ore.	-	62	-	4,218	-	301
21	California	418	1,588	-	2,184	1,599	374
	Total	10,964	74,715	62,496	92,948	12,945	20,610
	Total Production	6,928,696	383,845,085	100,018,465	160,744,188	77,956,132	33,644,556
	Total Cost	1,282,347	4,139,040	2,128,928	2,338,722	554,929	385,221
	Transportation Costs	-	387,832	102,340	602,892	43,988	130,242

Table 28 (contd). Run #28, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	215	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	5,639	2,215	1,147	-
9	Ky./Tenn.	4,428	2,032	1,016	-
10	Ala./Ga./S.C.	55,136	22,211	11,544	3,170
11	Fla.	-	-	-	-
12	Ark./La./Miss.	53,684	21,776	11,396	1,607
13	Tex./Oklahoma	25,255	2.022	3,297	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,608	1,685	848	-
20	Wash./Ore.	-	-	-	-
21	California	3,428	128	403	128
	Total	152,393	52,069	29,683	5,000

Table 28 (contd). Run #28, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	-	-	-	-
17	Illinois	49,130	4,161	3,233	15,622
18	Indiana	12,258	2,568	1,007	151
19	Iowa	18,483	1,650	2,475	1,485
20	Kansas	33,967	-	3,452	3,452
21	Kentucky	3,982	460	153	547
26	Michigan	1,897	-	-	402
27	Minnesota	17,291	-	2,144	2,144
29	Missouri	516	67	56	56
31	Nebraska	11,916	-	1,048	346
36	New York	762	-	38	38
37	North Carolina	2,449	211	-	290
39	Ohio	3,004	436	240	308
46	South Dakota	9,474	278	849	866
55	Wisconsin	6,929	-	1,157	1,168
56	Wyoming	31	2	4	2
	Total	172,090	9,832	15,855	26,876

Table 29. Run #29, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	10,710	6,894	377	1,674	35
2	Iowa/Missouri	179	9,565	13,313	1,523	2,128	352
3	Minn./Wisc.	-	8,292	4,829	5,691	-	1,574
4	Michigan	-	1,115	737	3,766	-	23
5	Ohio/Indiana	-	9,040	4,927	3,969	149	44
7	Mid-Atlantic	-	2,816	11	3,481	-	60
8	Va./W.Va./N.C.	247	4,307	30	1,423	69	119
9	Ky./Tenn.	310	2,520	499	1,709	50	97
10	Ala./Ga./S.C.	1,205	1,211	6,683	3,655	80	3,075
11	Fla.	15	18	1,659	-	-	11
12	Ark./La./Miss.	3,765	878	6,266	1,774	166	1,658
13	Tex./Oklahoma	4,914	6,570	4,005	9,938	5,920	3,842
14	Kan./Neb.	-	10,173	3,671	23,257	246	22
15	N.D./S.D.	-	4,679	9,082	17,076	52	2,438
16	Idaho/Montana	-	39	-	5,331	-	4,800
17	Colorado/Wy.	-	1,159	-	2,453	10	1,565
18	Ariz./N.M.	305	34	-	804	508	54
20	Wash./Ore.	-	62	-	4,218	-	301
21	California	418	1,588	-	2,184	1,599	374
	Total	11,358	74,790	62,608	92,898	12,651	20,613
	Total Production	6,928,696	384,034,292	100,031,379	165,683,188	47,459,063	33,644,556
	Total Cost	1,268,106	4,149,992	2,134,287	2,339,955	553,499	378,184
	Transportation Costs	-	384,445	101,426	607,661	43,798	132,918

Table 29 (contd). Run #29, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	215	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	2,605	867	473	-
9	Ky./Tenn.	873	255	126	-
10	Ala./Ga./S.C.	34,170	16,139	8,070	2,189
11	Fla.	-	-	-	-
12	Ark./La./Miss.	10,151	1,310	1,158	-
13	Tex./Oklahoma	25,981	1,260	3,454	90
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	2,515	848	429	-
20	Wash./Ore.	-	-	-	-
21	California	3,428	128	403	128
	Total	80,937	20,807	14,145	2,407

Table 29 (contd). Run #29, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	-	-	-	-
17	Illinois	49,130	4,161	3,233	15,622
18	Indiana	12,264	2,569	1,007	151
19	Iowa	18,913	1,689	2,533	1,520
20	Kansas	34,088	-	3,465	3,465
21	Kentucky	3,982	460	153	547
26	Michigan	1,897	-	-	402
27	Minnesota	17,291	-	2,144	2,144
29	Missouri	516	67	56	56
31	Nebraska	11,502	-	956	354
36	New York	762	-	38	38
37	North Carolina	2,449	211	-	290
39	Ohio	3,607	479	271	345
46	South Dakota	10,440	306	936	954
55	Wisconsin	6,929	-	1,157	1,168
56	Wyoming	31	2	4	2
	Total	173,800	9,944	15,952	27,057

Table 30. Run #30, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	10,710	6,806	377	1,763	35
2	Iowa/Missouri	179	10,182	14,146	1,523	676	352
3	Minn./Wisc.	-	8,292	4,738	5,691	-	1,665
4	Michigan	-	1,115	705	3,799	-	23
5	Ohio/Indiana	-	8,860	5,020	4,057	149	44
7	Mid-Atlantic	-	2,217	11	3,481	-	60
8	Va./W.Va./N.C.	247	4,307	30	1,423	69	119
9	Ky./Tenn.	310	2,515	499	1,709	50	97
10	Ala./Ga./S.C.	1,205	1,322	6,572	3,158	80	3,461
11	Fla.	15	18	1,659	-	-	11
12	Ark./La./Miss.	3,137	878	6,567	2,133	134	1,658
13	Tex./Oklahoma	5,589	6,427	4,005	10,189	5,608	3,370
14	Kan./Neb.	-	10,575	3,145	23,374	253	22
15	N.D./S.D.	-	4,679	9,343	16,599	52	2,654
16	Idaho/Montana	-	39	-	5,409	-	4,642
17	Colorado/Wy.	-	1,159	-	2,453	10	1,565
18	Ariz./N.M.	305	34	-	804	478	54
20	Wash./Ore.	-	62	-	4,218	-	301
21	California	418	1,588	-	2,184	1,599	374
	Total	11,405	75,592	63,335	92,852	10,922	20,674
	Total Production	6,928,696	389,914,141	100,190,130	165,683,188	41,753,334	33,644,556
	Total Cost	1,321,331	4,195,807	2,158,309	2,337,989	488,243	384,433
	Transportation Costs	-	387,554	101,686	601,551	44,587	127,916

Table 30 (contd). Run #30, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	9,040	3,820	1,912	-
9	Ky./Tenn.	4,428	2,032	1,017	-
10	Ala./Ga./S.C.	58,887	25,754	13,132	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	80,024	34,351	18,217	656
13	Tex./Oklahoma	44,238	4,082	6,715	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,820	1,685	842	-
20	Wash./Ore.	-	-	-	-
21	California	4,386	128	486	161
	Total	206,351	71,853	42,353	912

Table 30 (contd). Run #30, Part (c) - Insect Control Cost and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	-	-	-	-
17	Illinois	49,130	4,161	3,233	15,622
18	Indiana	11,943	2,492	984	153
19	Iowa	20,296	1,812	2,718	1,631
20	Kansas	33,967	-	3,452	3,452
21	Kentucky	3,982	460	153	547
26	Michigan	1,897	-	-	402
27	Minnesota	17,291	-	2,144	2,144
29	Missouri	516	67	56	56
31	Nebraska	11,595	-	1,029	333
36	New York	762	-	38	38
37	North Carolina	2,449	211	-	290
39	Ohio	3,161	488	242	312
46	South Dakota	10,440	306	936	954
55	Wisconsin	6,929	-	1,157	1,168
56	Wyoming	31	2	3	2
	Total	174,389	9,999	16,145	27,103

Table 31. Run #31, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	10,710	6,866	377	1,702	35
2	Iowa/Missouri	179	9,361	13,517	1,523	2,128	352
3	Minn./Wisc.	-	8,292	4,827	5,691	-	1,574
4	Michigan	-	1,115	704	3,799	-	23
5	Ohio/Indiana	-	8,845	4,900	4,193	149	44
7	Mid-Atlantic	-	2,816	11	3,481	-	60
8	Va./W.Va./N.C.	247	4,307	30	1,423	69	119
9	Ky./Tenn.	310	2,515	499	1,709	50	97
10	Ala./Ga./S.C.	1,205	1,313	6,581	3,193	80	3,434
11	Fla.	15	18	1,659	-	-	11
12	Ark./La./Miss.	3,563	787	6,243	2,133	123	1,685
13	Tex./Oklahoma	4,724	6,571	4,005	10,183	6,051	3,654
14	Kan./Neb.	-	10,661	3,176	23,257	353	22
15	N.D./S.D.	-	4,513	9,479	16,679	218	2,438
16	Idaho/Montana	-	39	-	5,417	-	4,628
17	Colorado/Wy.	-	1,159	-	2,453	10	1,565
18	Ariz./N.M.	305	34	-	789	494	54
20	Wash./Ore.	-	62	-	4,218	-	301
21	California	418	1,588	-	2,184	1,599	374
	Total	10,966	74,719	62,499	92,971	12,926	20,610
	Total Production	6,928,696	383,870,658	100,019,160	165,683,188	47,929,989	33,644,556
	Total Cost	1,268,514	4,139,764	2,128,981	2,340,514	554,686	384,054
	Transportation Costs	-	388,066	102,392	602,655	44,065	130,648

Table 31 (contd). Run #31, Part (b) - Insect Control Costs and Insecticide use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	4,825	1,951	956	-
9	Ky./Tenn.	873	255	126	-
10	Ala./Ga./S.C.	42,873	19,122	9,561	
11	Fla.	-	-	-	-
12	Ark./La./Miss.	43,636	17,153	8,578	-
13	Tex./Oklahoma	30,678	4,082	5,249	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,820	1,685	843	-
20	Wash./Ore.	-	-	-	-
21	California	4,386	128	486	161
	Total	132,620	44,375	25,850	256

Table 31 (contd). Run #31, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	-	-	-	-
17	Illinois	49,130	4,161	3,233	15,622
18	Indiana	12,264	2,570	1,007	151
19	Iowa	18,456	1,648	2,472	1,483
20	Kansas	33,967	-	3,452	3,452
21	Kentucky	3,982	460	153	547
26	Michigan	1,897	-	-	402
27	Minnesota	17,291	-	2,144	2,144
29	Missouri	516	67	56	56
31	Nebraska	12,096	-	1,055	354
36	New York	762	-	38	38
37	North Carolina	2,449	211	-	290
39	Ohio	3,002	434	240	308
46	South Dakota	9,474	278	850	866
55	Wisconsin	6,929	-	1,157	1,168
56	Wyoming	31	2	4	2
	Total	172,248	9,829	15,859	26,882

Table 32. Run #32, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	10,710	7,840	377	728	35
2	Iowa/Missouri	179	10,411	13,901	1,523	694	352
3	Minn./Wisc.	-	8,327	4,829	5,697	-	1,533
4	Michigan	-	1,130	708	3,780	-	23
5	Ohio/Indiana	-	8,856	4,650	4,432	149	44
7	Mid-Atlantic	-	2,816	11	3,481	-	60
8	Va./W.Va./N.C.	247	4,234	30	1,496	69	119
9	Ky./Tenn.	310	2,520	499	1,709	50	97
10	Ala./Ga./S.C.	1,205	1,211	6,683	3,196	80	3,533
11	Fla.	15	18	1,659	-	-	11
12	Ark./La./Miss.	2,922	878	6,398	2,528	123	1,658
13	Tex./Oklahoma	6,856	5,643	3,789	9,549	5,891	3,244
14	Kan./Neb.	-	10,700	3,145	23,257	246	22
15	N.D./S.D.	-	5,203	8,935	16,314	52	2,824
16	Idaho/Montana	-	39	-	5,279	-	4,904
17	Colorado/Wy.	-	1,159	-	2,453	10	1,565
18	Ariz./N.M.	305	34	-	804	524	54
20	Wash./Ore.	-	62	-	4,218	-	301
21	California	418	1,588	-	2,184	1,599	374
	Total	12,458	75,551	63,294	92,545	10,214	20,921
	Total Production	6,928,696	393,720,503	100,193,954	165,683,188	37,946,475	33,644,566
	Total Cost	1,239,037	4,225,001	2,163,090	2,344,533	456,511	383,970
	Transportation Costs	-	395,415	101,681	606,043	44,655	129,875

Table 32 (contd). Run #32, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	3,093	1,182	591	-
9	Ky./Tenn.	873	242	121	-
10	Ala./Ga./S.C.	28,660	14,031	7,016	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	29,447	8,737	5,904	-
13	Tex./Oklahoma	30,006	2,758	4,063	26
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	2,727	848	423	-
20	Wash./Ore.	-	-	-	-
21	California	3,686	128	403	128
	Total	99,021	27,926	18,554	154

Table 32 (contd). Run #32, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	-	-	-	-
17	Illinois	49,130	4,161	3,233	15,622
18	Indiana	12,264	2,569	1,007	151
19	Iowa	20,808	1,858	2,787	1,672
20	Kansas	34,088	-	3,466	3,465
21	Kentucky	3,982	460	153	547
26	Michigan	2,214	-	-	434
27	Minnesota	17,376	-	2,154	2,154
29	Missouri	516	67	56	56
31	Nebraska	12,134	-	1,062	354
36	New York	762	-	38	38
37	North Carolina	2,382	205	-	282
39	Ohio	3,237	270	277	348
46	South Dakota	10,440	306	936	954
55	Wisconsin	6,929	-	1,157	1,168
56	Wyoming	31	2	4	2
	Total	176,291	9,898	16,327	27,247

Table 33. Run#33, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	8,236	8,236	105	2,426	307
2	Iowa/Missouri	179	7,497	10,979	2,405	5,151	624
3	Minn./Wisc.	-	3,525	3,162	3,941	-	9,261
4	Michigan	-	497	442	2,181	-	2,130
5	Ohio/Indiana	-	5,148	4,135	4,359	1,496	1,617
7	Mid-Atlantic	-	3,257	11	2,256	-	845
8	Va./W.Va./N.C.	247	2,306	1,011	1,230	69	119
9	Ky./Tenn.	310	1,382	1,154	638	50	97
10	Ala./Ga./S.C.	1,205	2,235	39	90	80	891
11	Fla.	15	352	50	-	-	11
12	Ark./La./Miss.	2,626	2,355	2,036	768	134	918
13	Tex./Oklahoma	6,616	3,558	1,322	11,364	6,070	4,115
14	Kan./Neb.	-	7,139	3,731	19,031	6,053	974
15	N.D./S.D.	-	6,374	6,344	8,893	988	9,854
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	394	-	2,372	142	2,195
18	Ariz./N.M.	258	34	-	172	217	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,588	-	2,090	640	467
	Total	11,875	55,992	42,651	71,711	23,517	34,378
	Total Production	6,928,696	272,016,820	75,893,521	129,043,579	77,678,022	65,548,056
	Total Cost	1,243,765	2,882,384	1,380,921	1,594,992	713,269	622,025
	Transportation Costs	-	267,790	78,190	379,843	64,916	114,901

Table 33 (contd). Run #33, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	9,040	3,820	1,912	-
9	Ky./Tenn.	4,423	2,032	1,016	-
10	Ala./Ga./S.C.	58,887	25,754	13,132	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	65,329	28,218	15,151	656
13	Tex./Oklahoma	23,173	4,068	4,287	95
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	4,738	1,685	843	-
20	Wash./Ore.	-	-	-	-
21	California	4,386	128	487	161
	Total	170,510	65,706	36,858	912

Table 33 (contd). Run #33, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
12	Florida	1,330	-	167	147
17	Illinois	4,862	281	350	151
18	Indiana	1,336	-	202	202
19	Iowa	16,755	1,283	2,139	1,141
20	Kansas	-	-	-	-
21	Kentucky	1,638	192	57	230
26	Michigan	199	-	-	119
27	Minnesota	37	-	-	-
29	Missouri	224	62	33	18
31	Nebraska	3,893	-	694	-
36	New York	13	-	-	1
37	North Carolina	991	85	-	117
39	Ohio	918	61	95	117
46	South Dakota	2,443	13	264	290
55	Wisconsin	83	-	17	33
56	Wyoming	-	-	-	-
	Total	34,723	1,977	3,974	2,567

Table 34. Run #34, Part (a) - Acreage, Production and Cost Data.

No.	Consuming Region	Cotton (1000 acres)	Corn (1000 acres)	Soybeans (1000 acres)	Wheat (1000 acres)	Sorghum (1000 acres)	Small Grains (1000 acres)
1	Illinois	-	8,678	7,795	105	2,426	307
2	Iowa/Missouri	179	6,707	10,979	3,208	5,137	624
3	Minn./Wisc.	-	4,291	3,211	3,954	-	8,693
4	Michigan	-	496	363	2,249	-	2,130
5	Ohio/Indiana	-	5,275	4,058	4,367	1,549	1,378
7	Mid-Atlantic	-	2,816	11	2,791	-	750
8	Va./W.Va./N.C.	247	3,636	30	1,230	69	119
9	Ky./Tenn.	310	1,376	1,276	540	50	97
10	Ala./Ga./S.C.	1,205	1,854	39	90	80	990
11	Fla.	15	18	369	-	-	11
12	Ark./La./Miss.	2,431	2,270	2,031	651	134	1,809
13	Tex./Oklahoma	7,692	3,612	1,416	11,205	5,535	3,613
14	Kan./Neb.	-	7,859	3,219	18,899	5,953	998
15	N.D./S.D.	-	1,515	8,641	8,369	988	10,318
16	Idaho/Montana	-	39	-	5,336	-	2,268
17	Colorado/Wy.	-	394	-	2,372	142	2,194
18	Ariz./N.M.	258	34	-	171	321	33
20	Wash./Ore.	-	62	-	4,213	-	301
21	California	418	1,588	-	2,090	640	467
	Total	12,755	52,535	57,247	72,111	23,024	36,377
	Total Production	6,928,696	272,835,518	75,920,764	129,049,643	77,321,818	65,051,159
	Total Cost	1,170,743	2,875,131	1,363,887	1,609,603	706,374	602,347
	Transportation Costs	-	247,010	83,323	368,140	57,324	116,208

Table 34 (contd). Run #34, Part (b) - Insect Control Costs and Insecticide Use on Cotton.

No.	CONSUMING REGION	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	C
1	Illinois	-	-	-	-
2	Iowa/Missouri	529	-	32	-
3	Minn./Wisc.	-	-	-	-
4	Michigan	-	-	-	-
5	Ohio/Indiana	-	-	-	-
7	Mid-Atlantic	-	-	-	-
8	Va./W.Va./N.C.	3,093	1,182	591	-
9	Ky./Tenn.	873	242	121	-
10	Ala./Ga./S.C.	28,660	14,031	7,016	-
11	Fla.	-	-	-	-
12	Ark./La./Miss.	23,320	6,802	4,629	-
13	Tex./Oklahoma	31,939	1,757	3,374	26
14	Kan./Neb.	-	-	-	-
15	N.D./S.D.	-	-	-	-
16	Idaho/Montana	-	-	-	-
17	Colorado/Wy.	-	-	-	-
18	Ariz./N.M.	2,645	848	424	-
20	Wash./Ore.	-	-	-	-
21	California	3,686	129	403	128
	Total	94,745	24,991	16,590	154

Table 34 (contd). Run #34, Part (c) - Insect Control Costs and Insecticide Use on Corn.

No.	STATE	Insect Control Costs ($1000)	Insecticide (1000 lbs)		
			CH	OP	G
12	Florida	-	-	-	-
17	Illinois	12,695	478	486	394
18	Indiana	3,431	103	396	293
19	Iowa	14,900	1,141	1,902	1,014
20	Kansas	-	-	-	-
21	Kentucky	1,737	203	61	244
26	Michigan	625	-	-	136
27	Minnesota	13	-	-	-
29	Missouri	224	62	33	18
31	Nebraska	9,515	-	937	239
36	New York	952	-	29	29
37	North Carolina	7,017	192	-	263
39	Ohio	1,512	12	98	119
46	South Dakota	2,919	15	316	346
55	Wisconsin	16,794	290	2,031	580
56	Wyoming	-	-	-	-
	Total	72,334	2,496	6,288	3,076